

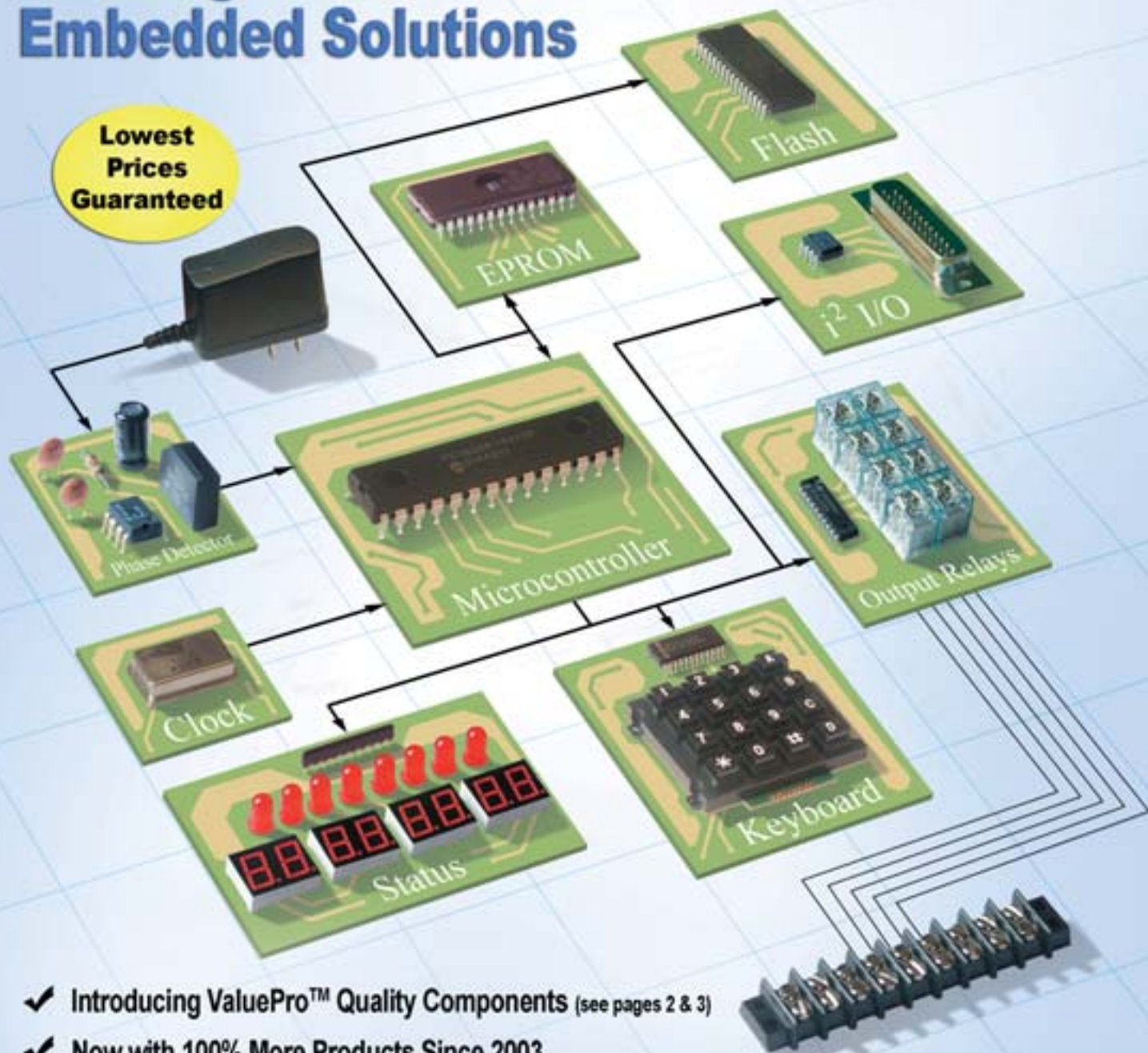
Catalog 251
February 2005

JAMECO[®]

ELECTRONICS
Great Products, Awesome Prices!

Now, All The Building Blocks for Embedded Solutions

**Lowest
Prices
Guaranteed**



- ✓ Introducing ValuePro[™] Quality Components (see pages 2 & 3)
- ✓ Now with 100% More Products Since 2003
- ✓ Lowest Price Guarantee (details on page 1)
- ✓ Over 99+% of Shipments Sent Same Day

1-800-831-4242
www.Jameco.com

New Additions in Jameco's Product Line!

This catalog is all about new items, expanded lines, better selection and greater values!

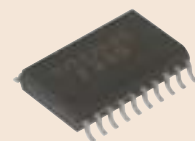
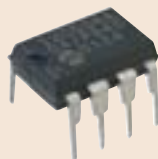
We're proud to bring you a new, cost-effective full-line selection of quality PEELs/PLDs from a true industry powerhouse, **Anachip**. As always with Jameco, these outstanding devices are

backed by our unmatched service, in-stock pledge, and lowest-price guarantee!

As you shop, you'll notice the ever-expanding list of products under Jameco's Exclusive **ValuePro** brand. ValuePro is a family of products and components that pass our highest standards of performance, and this value-packed line is growing broader every day.

This catalog also introduces our **BenchPro** brand of quality workbench instruments. These devices

have all been carefully reviewed and selected to receive the Jameco stamp of approval for top quality and value. If it's **BenchPro**, you can trust that it's the most useful, reliable and value-packed instrumentation available anywhere.



- Two new logic families, in the popular 74LVCxxx and 74ALVxxx series!
- Expanded 74LSxxx and the 74ALSxxx

low-power Schottky families, most available in your choice of DIP or SOIC packaging!

- Eight popular logic families in your choice of standard-setting **TI** or **Jameco's Value Offering** equivalent ICs!



- More analog and linear ICs, more relays, potentiometers, terminals, connectors, computer components and LEDs!

In every catalog, look for more new additions from your partner in quality and service, with the lowest prices, Jameco!



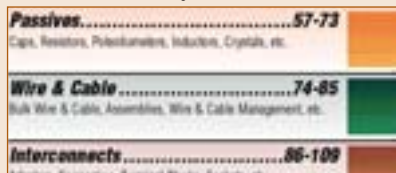
Over 930 New Products!

Product Line	Page #
BenchPro™ Digital Multimeters	192-195
ValuePro™ Capacitors	
Axial Electrolytic	59
Ceramic Disc	60
Large Can Electrolytic	59
Monolithic Ceramic	60
Radial Electrolytic	58
Surface Mount	57
ICs & Semiconductors	
74ALS	26
74LVC and 74ALVC	26
Anachip PEEL™ PLDs	13
Analog/Linear	34-39
Interface	30
PIC Microcontrollers	9-11
Power Management	28-29
Texas Instruments	23-25
Voltage Regulators	32-33
Hard Disk Drives	177
LEDs	54
ValuePro™ Switches	
Pushbutton	118
Miniature Pushbutton	119
Miniature Toggle	121
Rocker	122
Toggle	120

A Catalog as Great as the Products Inside It!

At Jameco, we always strive to bring you the best products at awesome prices. So we thought, why not deliver them in the industry's best catalog? In these pages you'll notice a number of changes, all designed to make the Jameco catalog the one you reach for first:

We've organized our products based on industry-standard usage, to make it even easier to find what you need, fast.



Color-coding points you to special values and new products. With the key on each page, you can quickly identify new products, reduced prices, sale items, and steep volume discounts.

Color Code Legend				
New	Sale	Qty.	Save	
Part No.	Description	1	10	25
199718CA	83-key PS/2	\$49.95	\$44.95	\$38.95
114886CA	84-key AT	\$49.95	\$44.95	\$38.95

Because we focus on your most-wanted products, our book is packed with clear listings of exactly what you need and not stuffed with dense, tiny listings of things you don't.

Part No.	Description	Qty.	Unit Price	Total Price
74ALS00	74ALS00	100	\$0.05	\$5.00
74ALS01	74ALS01	100	\$0.05	\$5.00
74ALS02	74ALS02	100	\$0.05	\$5.00
74ALS03	74ALS03	100	\$0.05	\$5.00
74ALS04	74ALS04	100	\$0.05	\$5.00
74ALS05	74ALS05	100	\$0.05	\$5.00
74ALS06	74ALS06	100	\$0.05	\$5.00
74ALS07	74ALS07	100	\$0.05	\$5.00
74ALS08	74ALS08	100	\$0.05	\$5.00
74ALS09	74ALS09	100	\$0.05	\$5.00
74ALS10	74ALS10	100	\$0.05	\$5.00
74ALS11	74ALS11	100	\$0.05	\$5.00
74ALS12	74ALS12	100	\$0.05	\$5.00
74ALS13	74ALS13	100	\$0.05	\$5.00
74ALS14	74ALS14	100	\$0.05	\$5.00
74ALS15	74ALS15	100	\$0.05	\$5.00
74ALS16	74ALS16	100	\$0.05	\$5.00
74ALS17	74ALS17	100	\$0.05	\$5.00
74ALS18	74ALS18	100	\$0.05	\$5.00
74ALS19	74ALS19	100	\$0.05	\$5.00
74ALS20	74ALS20	100	\$0.05	\$5.00
74ALS21	74ALS21	100	\$0.05	\$5.00
74ALS22	74ALS22	100	\$0.05	\$5.00
74ALS23	74ALS23	100	\$0.05	\$5.00
74ALS24	74ALS24	100	\$0.05	\$5.00
74ALS25	74ALS25	100	\$0.05	\$5.00
74ALS26	74ALS26	100	\$0.05	\$5.00
74ALS27	74ALS27	100	\$0.05	\$5.00
74ALS28	74ALS28	100	\$0.05	\$5.00
74ALS29	74ALS29	100	\$0.05	\$5.00
74ALS30	74ALS30	100	\$0.05	\$5.00
74ALS31	74ALS31	100	\$0.05	\$5.00
74ALS32	74ALS32	100	\$0.05	\$5.00
74ALS33	74ALS33	100	\$0.05	\$5.00
74ALS34	74ALS34	100	\$0.05	\$5.00
74ALS35	74ALS35	100	\$0.05	\$5.00
74ALS36	74ALS36	100	\$0.05	\$5.00
74ALS37	74ALS37	100	\$0.05	\$5.00
74ALS38	74ALS38	100	\$0.05	\$5.00
74ALS39	74ALS39	100	\$0.05	\$5.00
74ALS40	74ALS40	100	\$0.05	\$5.00
74ALS41	74ALS41	100	\$0.05	\$5.00
74ALS42	74ALS42	100	\$0.05	\$5.00
74ALS43	74ALS43	100	\$0.05	\$5.00
74ALS44	74ALS44	100	\$0.05	\$5.00
74ALS45	74ALS45	100	\$0.05	\$5.00
74ALS46	74ALS46	100	\$0.05	\$5.00
74ALS47	74ALS47	100	\$0.05	\$5.00
74ALS48	74ALS48	100	\$0.05	\$5.00
74ALS49	74ALS49	100	\$0.05	\$5.00
74ALS50	74ALS50	100	\$0.05	\$5.00
74ALS51	74ALS51	100	\$0.05	\$5.00
74ALS52	74ALS52	100	\$0.05	\$5.00
74ALS53	74ALS53	100	\$0.05	\$5.00
74ALS54	74ALS54	100	\$0.05	\$5.00
74ALS55	74ALS55	100	\$0.05	\$5.00
74ALS56	74ALS56	100	\$0.05	\$5.00
74ALS57	74ALS57	100	\$0.05	\$5.00
74ALS58	74ALS58	100	\$0.05	\$5.00
74ALS59	74ALS59	100	\$0.05	\$5.00
74ALS60	74ALS60	100	\$0.05	\$5.00
74ALS61	74ALS61	100	\$0.05	\$5.00
74ALS62	74ALS62	100	\$0.05	\$5.00
74ALS63	74ALS63	100	\$0.05	\$5.00
74ALS64	74ALS64	100	\$0.05	\$5.00
74ALS65	74ALS65	100	\$0.05	\$5.00
74ALS66	74ALS66	100	\$0.05	\$5.00
74ALS67	74ALS67	100	\$0.05	\$5.00
74ALS68	74ALS68	100	\$0.05	\$5.00
74ALS69	74ALS69	100	\$0.05	\$5.00
74ALS70	74ALS70	100	\$0.05	\$5.00
74ALS71	74ALS71	100	\$0.05	\$5.00
74ALS72	74ALS72	100	\$0.05	\$5.00
74ALS73	74ALS73	100	\$0.05	\$5.00
74ALS74	74ALS74	100	\$0.05	\$5.00
74ALS75	74ALS75	100	\$0.05	\$5.00
74ALS76	74ALS76	100	\$0.05	\$5.00
74ALS77	74ALS77	100	\$0.05	\$5.00
74ALS78	74ALS78	100	\$0.05	\$5.00
74ALS79	74ALS79	100	\$0.05	\$5.00
74ALS80	74ALS80	100	\$0.05	\$5.00
74ALS81	74ALS81	100	\$0.05	\$5.00
74ALS82	74ALS82	100	\$0.05	\$5.00
74ALS83	74ALS83	100	\$0.05	\$5.00
74ALS84	74ALS84	100	\$0.05	\$5.00
74ALS85	74ALS85	100	\$0.05	\$5.00
74ALS86	74ALS86	100	\$0.05	\$5.00
74ALS87	74ALS87	100	\$0.05	\$5.00
74ALS88	74ALS88	100	\$0.05	\$5.00
74ALS89	74ALS89	100	\$0.05	\$5.00
74ALS90	74ALS90	100	\$0.05	\$5.00
74ALS91	74ALS91	100	\$0.05	\$5.00
74ALS92	74ALS92	100	\$0.05	\$5.00
74ALS93	74ALS93	100	\$0.05	\$5.00
74ALS94	74ALS94	100	\$0.05	\$5.00
74ALS95	74ALS95	100	\$0.05	\$5.00
74ALS96	74ALS96	100	\$0.05	\$5.00
74ALS97	74ALS97	100	\$0.05	\$5.00
74ALS98	74ALS98	100	\$0.05	\$5.00
74ALS99	74ALS99	100	\$0.05	\$5.00

It's easier to compare features and prices as you shop. More of our catalog is organized in table format that allows for easy-to-read, crystal clear, side-by-side comparisons that most catalogs are not allowed by their suppliers to provide.

74LS Series - Low Power Schottky Logic					
Save When Purchasing Texas Instruments Products.					
America now offers list price to save! For selection of Texas Instruments products will save you 5-15% off marked prices. And if your quoted order requires a specific brand of IC, select the most financially advantageous America (Texas Instruments) to give rights to save up to 20%!					
			Texas Instruments		- Price %
Part No.	Subtype	Description	Unit Price	1.1 Reduced Price	
74LS00	000-114	Quad 1 Input NAND gate	\$0.050-010	\$0.0475-009	5.0%
74LS01	000-114	Quad 1 Input NAND gate	\$0.050-010	\$0.0475-009	5.0%
74LS02	000-114	Quad 2 Input NAND gate	\$0.050-010	\$0.0475-009	5.0%
74LS03	000-114	Quad 2 Input NAND gate	\$0.050-010	\$0.0475-009	5.0%
74LS04	000-114	Quad 1 Input NAND gate (TTL)	\$0.050-010	\$0.0475-009	5.0%
74LS05	000-114	Hex inverter	\$0.050-010	\$0.0475-009	5.0%
74LS06	000-114	Hex inverter	\$0.050-010	\$0.0475-009	5.0%

A Jameco
EXCLUSIVE

JAMECO
ReliaPro
✓ Reliable & Consistent
✓ Professional Grade
✓ Value Priced
✓ Backed by Jameco

JAMECO
ValuePro
✓ Value Priced
✓ Consistent Quality
✓ Professional Grade
✓ Backed by Jameco

A Jameco
EXCLUSIVE

JAMECO
BenchPro

Professional-Quality, Value-Priced Workbench Tools, Backed by Jameco!

In this catalog, Jameco introduces our **BenchPro** brand of standard-setting workbench instruments at great prices. We'll be adding more products to this line in each catalog, with the goal of providing a one-stop source to outfit your bench with the most useful and reliable instrumentation available anywhere.

The **BenchPro** logo means we've done the comparison shopping for you! These devices have met our high

standards of quality, rock-solid performance, and unbeatable value. And because Jameco stands behind each **BenchPro** product, you can trust that support and service are always just a toll-free call away!



See pages 192-195 for details.

Actuate Great Value with **ReliaPro** Solenoids!

JAMECO
ReliaPro

We now have a complete family of **ReliaPro** solenoids, with form and features to fit whatever your design requires.

These continuous-push, -pull and push/pull solenoids feature pro-grade quality and reliability, and range in power requirements from 12 to 24 VDC. You can depend on these units in high-demand applications like gaming machines, dispensers, coin counters, demo and point-of-sale displays, and circuit breakers. And because they carry the **ReliaPro** brand, they're backed by Jameco as the best value available, with performance that's second to none!



Details on page 116.

RPM: **ReliaPro** Performance Motors!

JAMECO
ReliaPro

Motors make your designs work, and **ReliaPro** motors deliver maximum performance at great prices. We've got a wide variety of motor types and sizes, with our customers' most-requested specs. Because you demand the best, every **ReliaPro** motor has passed our exhaustive multi-point review before it's ever listed in our catalog. That means

you'll receive professional-grade quality, reliability and value in every one!



For complete details see pages 110-115.

Top Quality, Low-Cost LEDs!

JAMECO
ValuePro

ValuePro LEDs offer just what you need to illuminate your designs: a wide selection of specs, colors and features, at prices that can't be beat!

Whether you need standard output or high-output LEDs, we're confident you'll find a solution within our expanding listings. Our LED line is constantly growing; watch for more from your value leader, Jameco!



See pages 51-52 for details.

Join the **ValuePro** Revolution!

JAMECO
ValuePro

In every catalog, you'll see more and more products with the **ValuePro** designation. What this means is simple:

When you choose **ValuePro**, you're selecting world-class quality and reliability, with trusted Jameco value, service and support.

ValuePro is our own house brand, an exclusive family of products and components that pass our highest standards of performance. When you build **ValuePro** components into your designs, you can trust that they'll be consistently reliable, compatible, available, and of course, value priced!



Available throughout pages 50-133.

Great Functionality, **BenchPro** Quality!



Check out the 5 new **BenchPro** digital multimeters in this catalog. We know you need professional-grade quality, reliability and accuracy in your meter, and these units are the functional-equivalents to top-movers in the industry. But now, you

can own them at unbelievably low Jameco prices! Choose the features you need, make your selection from this new Jameco exclusive line, and your meter will be on its way to your bench. You'll be thrilled with the power and functionality plus the combination of both quality and value that only Jameco delivers!

JAMECO
BenchPro

For new selection see pages 192-195.

Contact Information

Order Desk 24/7, 365 Days a Year
Phone: 1-800-831-4242
Fax: 1-800-237-6948
E-mail: sales@Jameco.com

Website www.Jameco.com

International Order Desk
Phone: 650-592-8097
Fax: 650-592-2503
E-mail: international@Jameco.com

Technical Support
Phone: 1-800-831-4242
E-mail: tech@Jameco.com

Customer Service
Phone: 1-800-831-4242
E-mail: custservice@Jameco.com

Credit Department
Phone: 650-592-8097
E-mail: credit@Jameco.com

International Toll-Free Fax
Columbia: 980-9-136748
Mexico: 001-800-593-1449
Indonesia: 1-803-015-237-6948
Brazil: 000-817-455-6119
New Zealand: 080-044-0470

JAMECO
ValuePro

Rocker Switches!

There are times when the advantages of a rocker-switch are exactly what your design needs.

We've got them all: snap-in, screw-in, illuminated, color-coded, low-profile, on-on, on-off, on-off-on... You get the ideal!

Check out our broad line, and we're sure you'll find the ideal rocker!



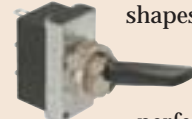
See page 122 for details.

JAMECO
ValuePro

Toggle Switches!

The right switch can be the perfect finishing touch to your latest project, and our growing line of **ValuePro** switches has the ideal toggle for you!

With most popular sizes, shapes and configurations covered, and more on the way, choose **ValuePro** for the perfect "turn-on!"



See pages 120-121 for complete listing.

JAMECO
ValuePro

Pushbutton Switches!

ValuePro quality gives our expanding line of pushbutton switches the edge in quality, dependability and Jameco value! Choose

your colors, mounting scheme, dimensions and specs, and we'll send you the perfect pushbutton for your application from our legendary 99% in-stock inventory!



For details see pages 118-119.

Add Precision Control to Your Projects (and Your Budget!)

JAMECO
ValuePro

The **ValuePro** brand of trimming potentiometers brings a new dimension of

quality and value to these essential controls. Our line is now more complete than ever, and we continue to add even more of the



controls you need with every catalog. Whatever your design demands, choose

Jameco **ValuePro** trimmers and you'll find the perfect balance of top-of-the-line quality and bottom-line economy!



For details see pages 66 & 68-70.

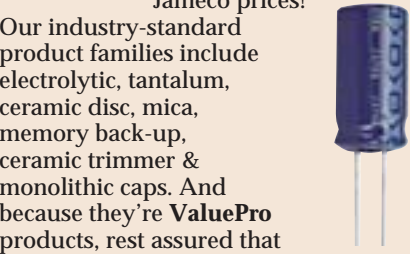
Get Huge Value in Capacitors, for Only a Small "Charge!"

JAMECO
ValuePro

Our broad line of **ValuePro** capacitors deliver the performance you need at low, low Jameco prices!

Our industry-standard product families include electrolytic, tantalum, ceramic disc, mica, memory back-up, ceramic trimmer & monolithic caps. And because they're **ValuePro** products, rest assured that

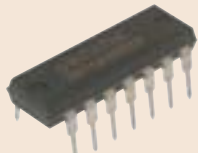
the components you need will be in-stock, top quality, and at the lowest prices anywhere; guaranteed!!



See pages 57-61 for complete details.

Squeeze Extra Capacity
Into Portable Devices!

We've added a dozen high-performance battery management ICs from technology leader **Texas Instruments**. Efficient management of the charge and discharge cycles of alkaline, NiMH, NiCAD, and Li-Ion batteries is more important than ever to successful designs. The low 8-16 pin count and efficient architecture of these ICs allow simple, trustworthy implementation into any portable/wireless application. Some are interface-ready with USB and SMBUS technology built-in!



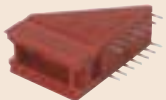
For details see pages 28-29.

Make Room in Your
Design Instantly,
with Aries Adapters!

As circuit designs get smaller and tighter, let **Aries** adapters make your work smoother and easier!



Whatever your design challenge, there's probably an **Aries** IC adapter to help you overcome it. Need the ease and flexibility of DIP socketing when designing with surface-mount chips? Want to save space by mounting ICs at a vertical or horizontal angle to the board? Check out our hand-picked selection of innovative **Aries** sockets and adapters, and you'll see the advantages of this new "angle" on chip mounting!



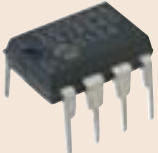
For complete selection see pages 97-99.

More Microchip to PIC from!

Jameco continues to broaden our selection of outstanding flash **Microchip** MCUs, in both DIP and SMT packaging. In this catalog, we've added more 16-bit **PIC controllers** to complement the line, including additional feature-rich devices with flash content



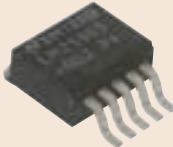
up to 48k-bytes. And we're not stopping there! We're continually adding more selection: more flash-memory MCUs, more package varieties, with an ever-wider range of features and capabilities to meet all your needs.



See complete selection on pages 9-12.

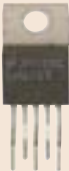
More Analog, More Value!

Based on your requests, the Jameco analog selection is growing! In this catalog we've got more audio, with new components (including instrumentation amps) aimed toward sound-oriented engineers. You'll also find new temperature sensors in a variety of new packages. Over 75 new op amps have been added, including low-power, high-



speed, and precision devices from all the top manufacturers.

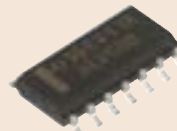
In addition to greater selection, it's also easier than ever to find exactly the part you need. We've added a column in the listings to include the manufacturer name, so when you need a specific maker for your bill of materials, you'll be sure to get it. Our goal is to be your one-stop source for analog parts!



See pages 30-39 for complete selection.

New 3.3 Volt Logic Families!

Low-voltage means less power consumption, and now Jameco supports your cutting-edge designs with some outstanding new selections of 3.3 volt ICs!



We're introducing two new logic families in this catalog, the 74LVC and 74ALVC series. We offer both 8-bit and 16-bit wide-bus configurations, with even more choices and versatility in the AVLC family. Plus,

these new products are available in SOIC and the latest Thin Shrink Small Outline Package (TSSOP) to fit perfectly with the ongoing transition to surface-mount designs. Both families are designed for 3-volt power supplies, and the high-speed ALVC devices are ideal for memory interfacing.



More logic is on the way, and more reasons to make Jameco your first choice in electronic components!

For details see page 26.

Design Excellence
+ Unbeatable Value
= **Anachip!**

In this catalog, Jameco is proud to introduce a new offering of quality **Anachip** components.



Anachip is a leading supplier of Analog and Programmable Logic Devices (PLDs) and markets them under the **ICT PEEL™** (Programmable Electrically Erasable Logic) brand. They are an international semiconductor company with turnkey technical and product support in



+ **JAMECO**
= **Unbeatable**

to their unique product lines at unbeatable Jameco prices!

Anachip is one of the leading suppliers of cost-effective PLDs, Hall Effect sensors, power-management ICs, and discrete components. They're one of the few manufacturers that offer drop-in replacements for popular industry PLDs, with low-power and small form-factor packages as an additional benefit.



Anachip devices are ISO 9000-2000 certified, and are big on value, without sacrificing premium-level features. For example, appropriate PLD devices feature Schmidt triggers on inputs to dramatically reduce noise. Plus, **Anachip** PLDs beat the industry standard of 4



your logic-packed solutions.

Anachip and Jameco: an unbeatable combination!

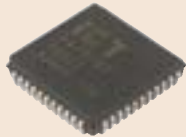
Available throughout pages 13, 32-33 & 38-39.

Anachip PLDs

Programmable Logic Devices (PLDs) can serve as a cornerstone to your designs, and Jameco is proud to carry the outstanding **Anachip/ICT** line.



Of course, **Anachip PEEL™** (Programmable Electrically Erasable Logic) technology can provide the "super-glue" to tie the sophisticated components in your design together. But the real **Anachip** advantage is drop-in replacement capability for products made by former competitors (like



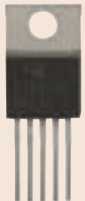
AMD, Intel, Philips, NSC and Cypress) who no longer manufacture PLDs.

With a full line of Anachip technology and Jameco pricing, you've now got a trusted, value-conscious source of high quality PLDs!



For details see page page 13.

Super Savings on
Anachip Analog!



Now you can save up to 25% on our great families of **Anachip** Analog devices! You're familiar with the quality and reliability of **Anachip...** You know they offer a one-year, free-replacement reliability guarantee...

You've experienced the performance of their LDOs, switching regulators, shunt regulators and hall-effect sensors... Now enjoy it all at absolutely unbeatable Jameco prices!



Complete listing on pages 32-33 & 38-39.

IC Index

Product Line	Page #
4000-CMOS Logic (DIP/SOIC)	26-28
5000 Series Timers & Clock Chips	30
6500 Series/Commodore Processors	8
6800/68000 Series Processors/Controllers	8,9
7400-TTL (DIP)	27,28,63
74ABT-TTL BiCMOS (DIP/SOIC)	18
74AC-TTL CMOS (DIP/SOIC)	14,15
74ACT-TTL CMOS (DIP/SOIC)	15,16
74AHC-TTL CMOS (DIP/SOIC)	17
74AHCT-TTL CMOS (DIP/SOIC)	17,18
74ALS-TTL (DIP/SOIC)	26
74ALVC-L.V. CMOS Logic (SOIC/TSSOP)	26
74C-TTL, CMOS (DIP)	27,28
74F-TTL (DIP/SOIC)	22,23
74HC-TTL, CMOS (DIP/SOIC)	19,20
74HCT-TTL, CMOS (DIP/SOIC)	21
74LS-TTL (DIP/SOIC)	23-25,63
74LVC-L.V. CMOS Logic (SOIC/TSSOP)	26
74S-TTL (DIP)	28
8000 Series, Intel Compatible	9,13,28
9000 Series	28
A/D & D/A Converters	31,32,39
AnaChip/ICT PLDs	13
Analog, NTE	45
Atmel Microcontrollers	12
Audio	34
Basic Stamp/Accessories	12,235,236
Buffers	35
Comparators	34,35
CPUs/MPUs	176
Dallas Semiconductor	28
Decoder/Encoder Chips	30,31
Digital Potentiometers	39
E-Lab Digital Interface	30
EPROMs & EEPROMs	6,7
Flash Memory	7
GALs	13
Hall Sensors	39
IC Assortments	26-28,34,41, 43,63
Interface Series	30
Linear Series	38,39
Memory (DIMMs/SIMMs)	177
Microchip Microcontrollers	9-12
Microcontrollers	9-12
Microprocessors	8-9
MPU Supervisory	28
NTE Replacement Semiconductors	45
Op Amps	35-37
Optoisolators	49,50
OTP/PROM	7,13
PALs	13
PEEL™ PLDs	13
Pentium® Processors	176
PIC Microcontrollers	9-12
Power Management	28,29
Prototyping Tools	212,213
RAM	7,8
RS-232 Drivers/Receivers	29
RS-422/485 Line Drivers/Receivers	29,30
Servo & Stepper Motor Controller	31
Sockets & Adapters	49,63,97,99,100
ST Micro Microcontrollers	8
Storage Tubes	217
Temperature Sensors	39
Test Clips	22
TI Microcontrollers	12
UARTs	30
Voice Chips	13
Voltage Regulators	33,34
Voltage Regulators, Low Drop-Out	32,33
Voltage Regulators, NTE	45-47
Z8 Microcontrollers OTP	8
Z80 Series Microcontrollers	8
Zilog Microcontrollers Flash	8

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

EPROM



Part No.	Cross Ref.	Pkg.	Description	1	10	100
39909CC	2708	DIP-24	1k x 8 450ns (±5V, +12V)	\$4.99	\$4.29	\$3.19
40002CC	2716	DIP-24	2k x 8 450ns (25V)	4.09	3.69	3.29
39706CC	27C16	DIP-24	2k x 8 450ns (25V) CMOS	6.99	5.99	4.99
308662CC	2716A-2	DIP-24	2k x 8 200ns (21V)	6.79	6.09	5.59
40011CC	2716-1	DIP-24	2k x 8 350ns (25V)	6.49	5.89	5.39
265931CC	27C16-200	DIP-24	2k x 8 200ns UVPROM (5V)	3.99	3.59	2.99
265965CC	27C16-150	DIP-24	2k x 8 150ns UVPROM (5V)	7.19	5.49	4.69
40096CC	2732	DIP-24	4k x 8 450ns (25V)	6.49	5.49	4.19
39765CC	27C32	DIP-24	4k x 8 450ns (25V) CMOS	5.49	4.19	2.89
40133CC	2732A-45	DIP-24	4k x 8 450ns (21V)	3.99	3.69	3.29
33591CC	TMS2532A	DIP-24	4k x 8 450ns (21V)	3.99	3.59	3.19
114876CC	2732B	DIP-24	4k x 8 450ns (12.5V)	4.19	3.79	3.39
40125CC	2732A-25	DIP-24	4k x 8 250ns (21V)	4.99	4.49	3.99
40109CC	2732A-20	DIP-24	4k x 8 200ns (21V)	6.49	5.99	5.49
265990CC	27C32-200	DIP-24	4k x 8 200ns UVPROM (5V)	5.99	4.99	3.99
266001CC	27C32-150	DIP-24	4k x 8 150ns UVPROM (5V)	6.99	5.99	4.99
40205CC	2764-25	DIP-28	8k x 8 250ns (21V)	5.29	4.79	4.29
40248CC	2764A-25	DIP-28	8k x 8 250ns (12.5V)	3.99	3.69	3.09
39845CC	27C64-25	DIP-28	8k x 8 250ns (12.5V) CMOS	4.49	4.09	3.79
40192CC	2764-20	DIP-28	8k x 8 200ns (21V)	5.29	4.79	4.29
40230CC	2764A-20	DIP-28	8k x 8 200ns (12.5V)	4.49	4.09	3.69
74608CC	27C64-20	DIP-28	8k x 8 200ns (12.5V) CMOS	4.69	4.29	3.79
39829CC	27C64-15	DIP-28	8k x 8 150ns (12.5V) CMOS	3.79	3.49	2.99
105304CC	27C64-12	DIP-28	8k x 8 120ns (12.5V) CMOS	6.49	5.99	5.49
266036CC	27C64-100	DIP-28	8k x 8 100ns UVPROM (5V)	4.09	3.59	2.69
266044CC	27C64-70	DIP-28	8k x 8 70ns UVPROM (5V)	5.39	5.19	4.39
266052CC	CYT264-55WC	DIP-28	8k x 8 55ns UVPROM (5V)	6.49	5.99	5.49
39933CC	27128-25	DIP-28	16k x 8 250ns (21V)	4.29	3.99	3.49
39984CC	27128A-25	DIP-28	16k x 8 250ns (12.5V)	4.49	4.09	3.69
39685CC	27C128-25	DIP-28	16k x 8 250ns (12.5V) CMOS	3.99	3.59	3.29
39968CC	27128A-20	DIP-28	16k x 8 200ns (12.5V)	4.69	4.19	3.79
101101CC	27C128-20	DIP-28	16k x 8 200ns (12.5V) CMOS	4.39	3.95	3.56
39950CC	27128A-15	DIP-28	16k x 8 150ns (12.5V)	4.49	3.99	3.59
39677CC	27C128-15	DIP-28	16k x 8 150ns (12.5V) CMOS	4.29	3.89	3.49
87935CC	27C128-12	DIP-28	16k x 8 120ns (12.5V) CMOS	4.69	4.09	3.69
266061CC	27C128-100	DIP-28	16k x 8 100ns (12Vpp)	4.89	4.29	3.89
149665CC	27C128-70	DIP-28	16k x 8 70ns (12.5V)	4.89	4.29	3.89
40061CC	27256-25	DIP-28	32k x 8 250ns (12V)	3.19	2.99	2.69
39731CC	27C256-25	DIP-28	32k x 8 250ns (12.5V) CMOS	3.19	2.99	2.69
40045CC	27256-20	DIP-28	32k x 8 200ns (12.5V)	3.69	3.29	2.99
39722CC	27C256-20	DIP-28	32k x 8 200ns (12.5V) CMOS	2.59	2.49	2.19
40037CC	27256-15	DIP-28	32k x 8 150ns (12.5V)	3.29	3.09	2.79
39714CC	27C256-15	DIP-28	32k x 8 150ns (12.5V) CMOS	2.09	1.79	1.59
65904CC	27C256-12	DIP-28	32k x 8 120ns (12.5V) CMOS	2.09	1.99	1.79
112740CC	27C256-10	DIP-28	32k x 8 100ns (12.5V) CMOS	3.29	3.09	2.59
140476CC	27C256-70	DIP-28	32k x 8 70ns (12.5V) CMOS	3.39	3.19	2.99
266079CC	27C256-55	DIP-28	32k x 8 55ns UVPROM (5V)	4.99	4.79	4.29
40168CC	27512-25	DIP-28	64k x 8 250ns (12.5V)	3.69	3.39	3.09
39802CC	27C512-25	DIP-28	64k x 8 250ns (12.5V) CMOS	4.75	4.39	3.95
40150CC	27512-20	DIP-28	64k x 8 200ns (12.5V)	2.69	2.39	2.19
39790CC	27C512-20	DIP-28	64k x 8 200ns (12.5V) CMOS	3.09	2.89	2.59
39781CC	27C512-15	DIP-28	64k x 8 150ns (12.5V) CMOS	2.09	1.99	1.79
39773CC	27C512-12	DIP-28	64k x 8 120ns (12.5V) CMOS	1.69	1.59	1.49
131959CC	27C512-10	DIP-28	64k x 8 100ns (12.5V) CMOS	3.19	2.99	2.49
175206CC	27C512-90	DIP-28	64k x 8 90ns (12.5V) CMOS	2.79	2.59	2.39
203625CC	27C512-70	DIP-28	64k x 8 70ns (12.5V) CMOS	2.89	2.49	2.19
266087CC	27C512-55	DIP-28	64k x 8 55ns (12Vpp)	3.59	3.39	3.19
203617CC	27C512-45	DIP-28	64k x 8 45ns (12.5V) CMOS	4.09	3.79	3.49
118148CC	27C1024-15	DIP-40	64k x 16 150ns (12.5V) CMOS	5.29	4.79	4.39
203641CC	27C1024-12	DIP-40	64k x 16 120ns (12.5V) CMOS	5.29	4.79	4.39
203633CC	27C1024-80	DIP-40	64k x 16 80ns (12.5V) CMOS	5.29	4.79	4.39
39669CC	27C010-20	DIP-32	128k x 8 200ns (12.5V) CMOS	2.39	2.29	1.99
39651CC	27C010-15	DIP-32	128k x 8 150ns (12.5V) CMOS	\$2.59 2.19	1.99	1.75
74624CC	27C010-12	DIP-32	128k x 8 120ns (12.5V) CMOS	\$2.99 2.09	1.99	1.79
79231CC	27C010-10	DIP-32	128k x 8 100ns (12.5V) CMOS	\$3.49 2.39	1.99	1.75
137699CC	27C010-80	DIP-32	128k x 8 80ns (12.5V) CMOS	3.99	3.59	2.99
146149CC	27C010-70	DIP-32	128k x 8 70ns (12.5V) CMOS	2.49	2.29	2.09

EPROM (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
266095CC	27C010-55	DIP-32	128k x 8 55ns (12Vpp)	\$5.29	\$4.89	\$4.49
137701CC	27C010-45	DIP-32	128k x 8 45ns (12.5V) CMOS	3.99	3.59	2.99
65681CC	27C020-20	DIP-32	256k x 8 200ns (12.5V) CMOS	4.99	4.59	3.99
65699CC	27C020-15	DIP-32	256k x 8 150ns (12.5V) CMOS	5.29	4.99	4.49
78852CC	27C020-12	DIP-32	256k x 8 120ns (12.5V) CMOS	5.29	4.89	4.49
156267CC	27C020-10	DIP-32	256k x 8 100ns (12.5V) CMOS	4.09	3.89	3.49
203650CC	27C020-80	DIP-32	256k x 8 80ns (12.5V) CMOS	4.39	3.99	3.89
266108CC	27C020-70	DIP-32	256k x 8 70ns UVPROM (5V)	4.89	4.49	3.39
266116CC	27C020-55	DIP-32	256k x 8 55ns UVPROM (5V)	6.89	6.55	6.21
127933CC	27C4096-12	DIP-40	256k x 16 120ns (12.5V) CMOS	9.29	8.69	7.89
85462CC	27C040-15	DIP-32	512k x 8 150ns (12.5V) CMOS	6.59	6.09	5.59
102293CC	27C040-12	DIP-32	512k x 8 120ns (12.5V) CMOS	6.59	6.09	5.59
111780CC	27C040-10	DIP-32	512k x 8 100ns (12.5V) CMOS	7.09	6.49	5.89
203676CC	27C040-80	DIP-32	512k x 8 80ns (12.5V) CMOS	7.09	6.49	5.89
266124CC	27C040-70	DIP-32	512k x 8 70ns UVPROM (5V)	6.05	5.19	5.15
266132CC	27C040-55	DIP-32	512k x 8 55ns UVPROM (5V)	9.49	8.59	7.59
203668CC	27C040-45	DIP-32	512k x 8 45ns (12.5V) CMOS	9.99	9.09	8.09
140003CC	27C080-12	DIP-32	1M x 8 120ns (12.5V) CMOS	12.59	11.59	10.59
265842CC	27C800-12	DIP-42	1M x 8 120ns UVPROM (5V)	12.59	11.59	10.59
156275CC	27C080-10	DIP-32	1M x 8 100ns (12.5V) CMOS	12.99	11.99	10.99
203684CC	27C080-90	DIP-32	1M x 8 90ns (12.5V) CMOS	12.99	11.99	10.99
156283CC	27C160-10	DIP-42	2M x 8 100ns (12.5V) CMOS	19.99	18.99	17.99

See EPROM programmers and erasers on pages 231 & 232

EPROM Accessories

Part No.	Cross Ref.	Description	1	5
13864CC	CF2	Conductive foam (12" x 24" x .25") hard black	\$9.29	\$8.35
66042CC	DE1	UVP portable EPROM eraser, pg 232	54.95	49.95
15712CC	DE4	8-chip UV-EPROM eraser, pg 232	119.95	109.95

EEPROM



Part No.	Cross Ref.	Pkg.	Description	1	10	100
276584CC	24C00	SOIC-8	16 x 8 Serial	\$.32	\$.31	\$.29
276568CC	24C00	DIP-8	16 x 8 Serial	.26	.25	.23
200627CC	24C44	DIP-8	16 x 16 Serial CMOS	1.99	1.79	1.61
276955CC	93C46	SOIC-8	64 x 16 3-wire serial	.37	.34	.29
102058CC	93C46	DIP-8	64 x 16 Serial (5V)	.35	.30	.25
276621CC	24C01	SOIC-8	128 x 8 2-wire serial	.29	.27	.20
276592CC	24C01	DIP-8	128 x 8 2-wire serial	.36	.29	.25
276971CC	93C56	SOIC-8	128 x 16 3-wire serial	.54	.50	.41
108855CC	93C56	DIP-8	128 x 16 Serial (5V)	.39	.35	.31
276630CC	24C02	SOIC-8	256 x 8 2-wire serial	.37	.36	.27
108839CC	24C02P	DIP-8	256 x 8 Serial CMOS	.47	.40	.30
276980CC	93C66	SOIC-8	256 x 16 3-wire serial	.37	.36	.32
200598CC	93C66	DIP-8	256 x 16 Serial (5V)	.69	.62	.55
276648CC	24C04	SOIC-8	512 x 8 2-wire serial	.34	.27	.24
108847CC	24C04P	DIP-8	512 x 8 Serial CMOS	.89	.79	.69
276998CC	93C76	SOIC-8	512 x 16 Microwire serial	.50	.48	.45
277000CC	93C76	DIP-8	512 x 16 Microwire serial	.58	.55	.52
276664CC	24C08	SOIC-8	1k x 8 2-wire serial	.32	.31	.29
200547CC	24C08-10	DIP-8	1k x 8 Serial CMOS	.89	.79	.69
277018CC	93C86	SOIC-8	1k x 16 Microwire serial	.51	.39	.36
200601CC	93C86	DIP-8	1k x 16 Serial (5V)	.69	.62	.55
276681CC	24C16	SOIC-8	2k x 8 2-wire serial	.45	.42	.37
200555CC	24C16-10	DIP-8	2k x 8 Serial CMOS	1.19	1.05	.79
276699CC	28C16	SOIC-24	2k x 8 Parallel	2.35	1.91	1.69
74691CC	28C16A-25	DIP-24	2k x 8 250ns (5V) CMOS	3.99	3.69	3.39
276710CC	28C17	SOIC-28	2k x 8 Parallel	3.95	2.69	2.45
276701CC	28C17	DIP-28	2k x 8 Parallel	2.29	2.05	1.95
40416CC	2817A-25	DIP-28	2k x 8 250ns 5V read/write	7.95	7.15	6.49
276728CC	24C32	SOIC-8	4k x 8 2-wire serial	.56	.55	.48
200563CC	24C32-10	DIP-8	4k x 8 Serial CMOS	1.79	1.69	1.39
276744CC	24C64	SOIC-8	8k x 8 2-wire serial	.66	.64	.57
200619CC	24C65	DIP-8	8k x 8 Serial CMOS	1.89	1.69	1.49
276752CC	28C64	SOIC-28	8k x 8 EEPROM	3.69	3.49	3.43

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

EEPROM (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
74827CC	28C64A-25	DIP-28	8k x 8 250ns, 5V CMOS	\$4.49	\$4.05	\$3.65
40475CC	2865A	DIP-28	8k x 8 250ns 5V read/write	4.95	4.49	4.05
276787CC	24C128	SOIC-8	16K x 8 2-wire serial	1.05	.99	.89
200571CC	24C128-10	DIP-8	16k x 8 Serial CMOS	1.79	1.49	1.33
276808CC	24C256	SOIC-8	32k x 8 2-wire serial	1.45	1.41	1.25
200580CC	24C256-10	DIP-8	32k x 8 Serial CMOS	3.19	2.39	2.15
276816CC	28C256	SOIC-28	32k x 8 Paged parallel CMOS	8.49	7.69	7.05
74878CC	28C256-25	DIP-28	32k x 8 250ns CMOS	8.75	7.45	5.59
74843CC	28C256-15	DIP-28	32k x 8 150ns CMOS	8.99	6.89	6.19
276875CC	24C512	SOIC-8	64k x 8 2-wire serial CMOS	2.65	2.51	2.29
276832CC	24C512	DIP-8	64k x 8 2-wire serial CMOS	2.59	2.39	1.99
276891CC	28C512	DIP-32	64k x 8 Parallel CMOS	13.15	10.65	9.35
276904CC	28C512	PLCC-32	64k x 8 Parallel CMOS	13.15	10.65	9.35
276921CC	24C1024	SOIC-8	128k x 8 2-wire serial CMOS	7.59	5.79	5.29
276912CC	24C1024	DIP-8	128k x 8 2-wire serial CMOS	6.79	5.19	4.69
276939CC	28C010	DIP-32	128k x 8 Paged parallel CMOS	24.79	23.55	21.19
276947CC	28C010	PLCC-32	128k x 8 Paged parallel CMOS	50.95	45.81	41.23
242253CC	28C010-15	DIP-32	128k x 8 150ns, 5V CMOS	33.09	30.84	28.27

OTP/PROM

Part No.	Cross Ref.	Pkg.	Description	1	10	100
48531CC	74S188	DIP-16	32 x 8 Open collector (27S18)	\$4.39	\$3.95	\$3.45
48717CC	74S288	DIP-16	32 x 8 Tri-st. (27S19/TBP18S030N)	7.39	6.39	5.49
27844CC	N82S23	DIP-16	32 x 8 PROM (OC) (27S18)	5.99	5.39	4.89
27764CC	N826123	DIP-16	32 x 8 PROM tri-state (27S19)	8.89	8.49	8.09
48696CC	74S287	DIP-16	256 x 4 Tri-state (TBP24S10N)	8.95	7.85	7.09
48805CC	74S387	DIP-16	256 x 4 Open collector (TBP24A10N)	3.09	3.05	3.00
27772CC	N82S126	DIP-16	256 x 4 PROM (OC) (27S20)	6.89	5.89	5.29
27781CC	N82S129	DIP-16	256 x 4 PROM tri-state (27S21)	9.95	9.45	8.99
48910CC	74S571	DIP-16	512 x 4 Tri-state (27S13)	5.69	5.49	5.29
27799CC	N82S131	DIP-16	512 x 4 PROM tri-state (27S13)	7.99	6.99	5.99
48928CC	74S573	DIP-18	1k x 4 Tri-state (27S33)	3.39	2.89	2.59
27801CC	N82S137	DIP-18	1k x 4 PROM tri-state (27S33)	6.95	6.25	5.65
27810CC	N82S181	DIP-24	1k x 8 Bipolar PROM tri-state	6.59	5.59	4.89
27828CC	N82S185	DIP-18	2k x 4 PROM tri-state	3.89	3.19	3.09
27836CC	N82S191	DIP-24	2k x 8 PROM tri-state	6.89	6.29	5.69
266212CC	27C64A-20	PLCC-32	8k x 8 200ns CMOS	2.19	2.09	1.69
266247CC	27C256-20	PLCC-32	32k x 8 200ns CMOS	1.59	1.39	1.29
266255CC	27C256-15	PLCC-32	32k x 8 150ns CMOS	1.69	1.49	1.39
266280CC	27C256-10	PLCC-32	32k x 8 100ns CMOS	1.99	1.79	1.69
266319CC	27C256-70	PLCC-32	32k x 8 70ns CMOS	2.09	1.99	1.89
266327CC	27C256-55	PLCC-32	32k x 8 55ns CMOS	2.39	2.29	1.89
266335CC	27C512-20	PLCC-32	64k x 8 200ns CMOS	1.79	1.69	1.49
266343CC	27C512-15	PLCC-32	64k x 8 150ns CMOS	1.89	1.79	1.59
203730CC	27C512-10 PLCC	PLCC-32	64k x 8 100ns (12.5V) CMOS	1.99	1.89	1.79
203692CC	27C512-10 OTP	DIP-28	64k x 8 100ns (12.5V) CMOS	2.19	1.99	1.89
266351CC	27C512-70	PLCC-32	64k x 8 70ns CMOS	2.29	2.19	1.99
266386CC	27C512-55	PLCC-32	64k x 8 55ns CMOS	2.49	2.39	2.19
266394CC	27C010-20	PLCC-32	128k x 8 200ns CMOS	1.49	1.29	1.19
266790CC	27C010-15	PLCC-32	128k x 8 150ns CMOS	1.59	1.39	1.29
203705CC	27C010-10 OTP	DIP-32	128k x 8 100ns (12.5V) CMOS	2.29	2.19	1.99
203748CC	27C010-10 PLCC	PLCC-32	128k x 8 100ns (12.5V) CMOS	1.35	1.25	1.15
266802CC	27C010-70	PLCC-32	128k x 8 70ns CMOS	2.29	2.19	1.99
266811CC	27C010-55	PLCC-32	128k x 8 55ns CMOS	2.39	1.57	1.55
266888CC	27C020-15	PLCC-32	256k x 8 150ns CMOS	3.89	3.69	3.29
203713CC	27C020-10 OTP	DIP-32	256k x 8 100ns (12.5V) CMOS	3.69	3.49	3.19
203756CC	27C020-10 PLCC	PLCC-32	256k x 8 100ns (12.5V) CMOS	3.79	3.69	3.29
266853CC	27C020-20	PLCC-32	256k x 8 200ns (12V) CMOS	3.69	3.49	3.19
267101CC	27C020-70	PLCC-32	256k x 8 70ns CMOS	3.89	3.79	3.19
267135CC	27C020-55	PLCC-32	256k x 8 55ns CMOS	3.99	3.89	3.19
267160CC	27C040-15	PLCC-32	512k x 8 150ns CMOS	5.49	4.89	4.69
203764CC	27C040-10 PLCC	PLCC-32	512k x 8 100ns (12.5V) CMOS	5.09	4.19	4.09
203721CC	27C040-10 OTP	DIP-32	512k x 8 120ns (12.5V) CMOS	3.55	3.25	2.95
267186CC	27C040-70	PLCC-32	512k x 8 70ns CMOS	4.69	4.29	4.21

See page 176 for our complete selection of PC CPUs.

OTP/PROM (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
267194CC	27C040-55	PLCC-32	512k x 8 55ns CMOS	\$9.99	\$9.39	\$8.79
267303CC	27C080-10	PLCC-32	1M x 8 100ns CMOS	9.99	8.89	7.69
267215CC	27C080-15	PLCC-32	1M x 8 150ns (12V) CMOS	7.65	7.25	6.55
267320CC	27C080-55	PLCC-32	1M x 8 55ns CMOS	12.99	11.89	10.69
267389CC	27C160-10	PLCC-44	2M x 8 100ns CMOS	16.99	16.99	15.99

Flash Memory

Part No.	Cross Ref.	Pkg.	Description	1	10	100
242552CC	29C512-12	DIP-32	64k x 8 120ns (5V) CMOS	\$4.59	\$3.69	\$3.19
242561CC	29F512-90	DIP-32	64k x 8 90ns (5V) CMOS	4.69	3.89	3.59
242579CC	29F512-70	DIP-32	64k x 8 70ns (5V) CMOS	5.09	4.89	4.49
74771CC	28F010-15	DIP-32	128k x 8 150ns (12V) CMOS	6.95	6.25	5.65
242587CC	29F010-120	DIP-32	128k x 8 120ns (5V) CMOS	3.95	3.65	3.15
242595CC	29F010-90	DIP-32	128k x 8 90ns (5V) CMOS	4.39	4.09	3.79
242608CC	29F010-70	DIP-32	128k x 8 70ns (5V) CMOS	6.09	4.99	4.49
74835CC	28F020-15	DIP-32	256k x 8 150ns (12V) CMOS	7.95	7.15	6.45
242616CC	29F020-12	DIP-32	256k x 8 120ns (5V) CMOS	6.19	4.79	4.49
242624CC	29F020-90	DIP-32	256k x 8 90ns (5V) CMOS	8.69	6.99	6.09
242659CC	29F040-120	DIP-32	512k x 8 120ns (5V) CMOS	8.95	8.65	8.25
242667CC	29F040-90	DIP-32	512k x 8 90ns (5V) CMOS	12.05	11.45	10.85
277211CC	29F800-70	TSOP-48	1M x 8 70ns (5V) top boot	3.15	2.75	2.09
277261CC	29F800-70	TSOP-48	1M x 8 70ns (5V) bottom boot	6.95	6.59	6.29
277270CC	29F800-120	TSOP-48	1M x 8 120ns (5V) top boot	3.69	3.29	3.09
277288CC	29F800-120	TSOP-48	1M x 8 120ns (5V) bottom boot	7.35	6.59	5.95
277309CC	29F016-70	TSOP-48	2M x 8 70ns (5V) top boot	4.35	2.85	2.35
277368CC	29F320-70	TSOP-48	4M x 8 70ns (5V) top boot	8.69	7.29	4.81
277405CC	29F640-110	TSOP-56	8M x 8 110ns (5V)	12.39	11.15	10.49
277448CC	28F128-150	TSOP-56	16M x 8 150ns (5V)	22.69	19.09	15.39

Dynamic and Video RAM

Part No.	Cross Ref.	Pkg.	Description	1	10	100
41339CC	4116-15	DIP-16	16k x 1 150ns (MM5290J-1R)	\$.99	\$.89	\$.80
41662CC	4164-150	DIP-16	64k x 1 150ns (MCM6665-15)	.59	.53	.48
41574CC	41464-10	DIP-18	64k x 4 100ns (HY53C464S-10)	1.69	1.65	1.59
41427CC	41256-150	DIP-16	256k x 1 150ns (P21256-15)	.69	.59	.49
41398CC	41256-120	DIP-16	256k x 1 120ns (MB81256-12)	.73	.65	.59
42315CC	514256P-80	DIP-20	256k x 4 80ns (UPD424256-80)	2.49	2.25	2.05
93374CC	514256P-70	DIP-20	256k x 4 70ns (TC514256P-70)	2.79	2.49	2.19
128688CC	HM514260	SOJ	256k x 16 70ns	3.39	2.88	2.16
42219CC	511000P-10	DIP-18	1M x 1 100ns (M5M4C1000-10)	2.25	1.99	1.79

Static RAM

Part No.	Cross Ref.	Pkg.	Description	1	10	100
38931CC	2111-1	DIP-18	256 x 4 500ns (AM9111APC)	\$1.69	\$1.55	\$1.35
42198CC	5101	DIP-22	256 x 4 450ns (CMOS)	7.99	7.19	6.49
38957CC	2114N	DIP-18	1k x 4 450ns (9114BPC)	2.29	1.99	1.79
43238CC	6514	DIP-18	1k x 4 350ns CMOS (M58981P)	3.95	3.65	3.35
38973CC	2114N-2	DIP-18	1k x 4 200ns (9114EPC) (U214D20)	2.49	2.09	1.89
38981CC	2114N-2L	DIP-18	1k x 4 200ns low power	2.49	2.25	2.05
243475CC	MBM104174A-10	DIP-24	1k x 4 10ns ECL asynchronous	3.49	2.99	2.49
38746CC	2016-20	DIP-24	2k x 8 200ns (MB8128-20)	1.39	1.18	88
114260CC	DS1220V-150	DIP-24	2k x 8 150ns 4.25V WP	11.95	10.95	9.85
25911CC	MK48Z02B-15	DIP-24	2k x 8 150ns (16kB) zero-power RAM	6.89	6.39	5.79
42809CC	6116P-3	DIP-24	2k x 8 150ns (16kB) CMOS	1.49	1.29	1.09
42753CC	6116LP-3	DIP-24	2k x 8 150ns (16kB) LP CMOS	1.95	1.75	1.59
38738CC	2016-12	DIP-24	2k x 8 120ns (AM9128-12)	1.49	1.29	1.19
42796CC	6116P-2	DIP-24	2k x 8 120ns (16kB) CMOS	1.59	1.39	1.29
42788CC	6116P-1	DIP-24	2k x 8 100ns (16kB) CMOS	1.69	1.49	1.39
42737CC	6116LP-1	DIP-24	2k x 8 100ns (16kB) LP CMOS	1.99	1.79	1.65
242675CC	6116-70	DIP-24	2k x 8 70ns (5V) CMOS async.	2.09	1.99	1.89
242683CC	CY7C128A-45	DIP-24	2k x 8 45ns (5V) CMOS async.	5.39	4.19	3.59
242691CC	CY7C128A-35	DIP-24	2k x 8 35ns (5V) CMOS async.	4.69	3.79	3.30
242704CC	CY7C128A-25	DIP-24	2k x 8 25ns (5V) CMOS async.	4.69	3.79	2.99
242712CC	CY7C128A-15	DIP-24	2k x 8 15ns (5V) CMOS async.	5.19	4.19	3.19

Memory and Microprocessors



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

Static RAM (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
114307CC	DS1225Y-200	DIP-28	8k x 8 200ns, 4.25V WP	\$15.95	\$14.49	\$11.65
114278CC	DS1225AB-150	DIP-28	8k x 8 150ns, 4.62V WP	17.29	14.49	9.89
42930CC	6264P-12	DIP-28	8k x 8 120ns (64kB) CMOS	2.65	2.39	2.15
42892CC	6264LP-12	DIP-28	8k x 8 120ns (64kB) LP CMOS	2.79	2.49	2.19
42921CC	6264P-10	DIP-28	8k x 8 100ns (64kB) CMOS	2.59	2.29	1.99
42884CC	6264LP-10	DIP-28	8k x 8 100ns (64kB) LP CMOS	2.75	2.49	2.25
85121CC	6264LP-70	DIP-28	8k x 8 70ns (64kB) LP CMOS	3.39	3.05	2.75
242721CC	6264-55	DIP-28	8k x 8 55ns (5V) CMOS async.	3.29	2.59	2.09
242333CC	CY7C185-35	DIP-28	8k x 8 35ns (5V) CMOS async.	2.89	2.29	1.79
242341CC	CY7C185-25	DIP-28	8k x 8 25ns (5V) CMOS async.	2.89	2.29	1.79
242350CC	7C185-20	DIP-28	8k x 8 20ns 5V asynchronous	2.89	2.29	1.79
114323CC	DS1230Y-150	DIP-28	32k x 8 150ns, 4.37V WP	19.95	18.95	15.15
41988CC	43256-12L	DIP-28	32k x 8 120ns low power NEC	4.99	4.49	4.09
42850CC	62256LP-12	DIP-28	32k x 8 120ns low power CMOS	3.89	3.49	3.19
177113CC	DS1230Y-100	DIP-28	32k x 8 100ns, 4.37V WP	17.75	13.75	12.85
41970CC	43256-10L	DIP-28	32k x 8 100ns low power NEC	5.49	4.99	4.49
42833CC	62256LP-10	DIP-28	32k x 8 100ns low power CMOS	4.19	3.55	2.65
42876CC	62256LP-85	DIP-28	32k x 8 85ns low power CMOS	3.09	2.49	1.99
82472CC	62256LP-70	DIP-28	32k x 8 70ns low power CMOS	5.49	4.99	4.49
279814CC	62256S-70	SOJ-28	32k x 8 70ns 5V CMOS	1.59	1.48	1.36
242499CC	DS1230Y-70	DIP-28	32k x 8 70ns nonvol. 4.5V WP	16.59	15.29	13.99
242376CC	MSM5258P-35	DIP-28	32k x 8 35ns 5V asynchronous	1.99	1.59	1.19
279822CC	CY7C199-35V	SOJ-28	32k x 8 35ns	1.59	1.29	1.09
279831CC	CY7C199-25V	SOJ-28	32k x 8 25ns	1.65	1.39	1.05
279849CC	CY7C199-20V	SOJ-28	32k x 8 20ns	1.75	1.39	1.05
75037CC	UM61M256K-15	DIP-28	32k x 8 15ns hi speed CMOS (.3"W) ..	3.39	2.99	2.69
279857CC	62256S-15	SOJ-28	32k x 8 15ns	1.49	1.24	1.00
279865CC	62256S-12	SOJ-28	32k x 8 12ns	1.85	1.49	1.12
103982CC	628128LP-85	DIP-32	128k x 8 85ns low power CMOS	8.49	7.49	6.79
131810CC	628128LP-70	DIP-32	128k x 8 70ns low power CMOS	8.99	7.39	6.69
279873CC	628128S-70	SOP-32	128k x 8 12ns	2.49	2.19	1.89
279911CC	CY7C109B-12V	SOJ-32	128k x 8 12ns	2.99	2.55	1.99
280014CC	625616S-70	SOP-44	256k x 16 70ns	7.39	6.89	6.35
280031CC	CY7C1041B-15V	SOJ-44	256k x 16 15ns	8.09	7.09	6.99
157358CC	628512LP-70	DIP-32	512k x 8 70ns low power CMOS	18.99	16.99	16.19
280049CC	628512S-70	SOP-32	512k x 8 70ns	3.45	3.25	3.05
280065CC	CY7C1049B-20V	SOJ-36	512k x 8 20ns	9.99	8.89	7.79

ST7 Micro MCUs



Part No.	Cross Ref.	Pkg.	Description	1	10	100
288139CC	ST7FLITE29F2B6	DIP-20	8-bit MCU w/ flash, 8k ROM, 15 I/O, 8MHz, A/D ..	\$4.25	\$3.69	\$3.35
288147CC	ST7FLITE29F2M6	SOIC-20	8-bit MCU w/ flash, 8k ROM, 15 I/O, 8MHz, A/D ..	4.25	3.69	3.35

Zilog Flash MCUs



Part No.	Cross Ref.	Pkg.	Description	1	10	100
280268CC	Z8F1601PM020SC	DIP-40	16kB ROM, 2kB RAM, 31 I/O, A/D	\$10.95	\$10.25	\$9.65
280276CC	Z8F1601VN020SC	PLCC-44	16kB ROM, 2kB RAM, 31 I/O, A/D	10.99	8.99	8.59
280284CC	Z8F1602VS020SC	PLCC-68	16kB ROM, 2kB RAM, 46 I/O, A/D	11.45	9.05	8.65
280292CC	Z8F2401PM020SC	DIP-40	24kB ROM, 2kB RAM, 31 I/O, A/D	12.65	11.75	10.85
280305CC	Z8F2401VN020SC	PLCC-44	24kB ROM, 2kB RAM, 31 I/O, A/D	12.65	11.75	10.85
280313CC	Z8F2402VS020SC	PLCC-68	24kB ROM, 2kB RAM, 46 I/O, A/D	13.15	10.35	9.85
280321CC	Z8F3201PM020SC	DIP-40	32kB ROM, 2kB RAM, 31 I/O, A/D	13.45	10.55	10.05
280330CC	Z8F3201VN020SC	PLCC-44	32kB ROM, 2kB RAM, 31 I/O, A/D	13.45	10.55	10.05
280348CC	Z8F3202VS020SC	PLCC-68	32kB ROM, 2kB RAM, 46 I/O, A/D	13.95	10.95	10.45
280356CC	Z8F4801PM020SC	DIP-40	48kB ROM, 4kB RAM, 31 I/O, A/D	15.19	11.85	11.35
280364CC	Z8F4801VN020SC	PLCC-44	48kB ROM, 4kB RAM, 31 I/O, A/D	15.15	11.85	11.35
280372CC	Z8F4802VS020SC	PLCC-68	48kB ROM, 4kB RAM, 46 I/O, A/D	15.65	12.35	11.75
280381CC	Z8F6401PM020SC	DIP-40	64kB ROM, 4kB RAM, 46 I/O, A/D	16.85	13.25	12.55
280399CC	Z8F6401VN020SC	PLCC-44	64kB ROM, 4kB RAM, 46 I/O, A/D	16.85	13.25	12.55
280401CC	Z8F6402VS020SC	PLCC-68	64kB ROM, 4kB RAM, 46 I/O, A/D	17.35	13.65	12.95

Z8 OTP MCUs



Part No.	Cross Ref.	Pkg.	Description	1	10	100
281228CC	Z86E3016PSC	DIP-28	RAM/ROM Protect, 24 I/O lines	\$6.59	\$4.99	\$4.15
281236CC	Z86E3016VSC	PLCC-28	RAM/ROM Protect, 24 I/O lines	6.59	4.99	4.15

Z8 OTP MCUs (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
281252CC	Z86E0812SSC1866	SOIC-18	ROM protect, 14 I/O lines	\$3.99	\$2.99	\$2.23
281279CC	Z86E0812PSC1866	DIP-18	ROM protect, 14 I/O lines	3.99	2.99	2.25
281287CC	Z86E0812PEC	DIP-18	ROM protect, 14 I/O lines	4.35	3.29	2.45
281295CC	Z86E0208SSC1925	SOIC-18	ROM protect, 14 I/O lines, 1 cntr/timer ...	1.89	1.65	1.45

Zilog Z80 MPUs



Part No.	Cross Ref.	Pkg.	Description	1	10	100
35561CC	Z80	DIP-40	2.5MHz CPU (MK3880N/780C)	\$1.39	\$1.19	\$1.09
35596CC	Z80A	DIP-40	4MHz CPU (MK3880N-4/780C-1)	1.99	1.79	1.59
35609CC	Z80A-CTC	DIP-28	4MHz counter timer circuit (MK3882-4) ..	1.99	1.79	1.59
35625CC	Z80A-DART	DIP-40	4MHz dual asynchronous receiver/trans.	3.49	3.19	2.89
35641CC	Z80A-PIO	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4) ..	1.49	1.29	1.15
35668CC	Z80A-SIO/O	DIP-40	4MHz serial I/O (Tx/CB & Rx/CB bond.) MK3884-4 ..	2.19	1.79	1.59
35705CC	Z80B	DIP-40	6MHz CPU (MK3880N-6)	2.59	2.39	2.09
280410CC	Z8018006PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	9.29	7.05	6.29
280428CC	Z8018006VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	9.29	7.05	6.29
280436CC	Z8018008PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	9.69	7.35	6.29
280444CC	Z8018008VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	9.95	7.45	6.25
280452CC	Z8018010PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	8.15	8.03	7.30
280461CC	Z8018010VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	11.29	8.55	7.35
280479CC	Z8S18020PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	13.35	12.05	10.75
280487CC	Z8S18020VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	12.95	9.79	8.05
280495CC	Z8S18033VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	9.55	9.35	9.09
35781CC	Z84C000-4	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	4.15	3.49	2.55
280508CC	Z84C0006VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	3.09	2.79	2.39
280516CC	Z84C0008PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.25	2.99	2.59
280524CC	Z84C0008VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	3.39	2.89	2.59
280532CC	Z84C0010PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.25	2.99	2.59
280541CC	Z84C0010VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	4.89	3.69	3.15
280559CC	Z84C0020VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	13.29	12.00	10.20
280567CC	Z84C4008PEC	DIP-40	Dual data ch. communication interface ...	7.25	6.65	5.69
280575CC	Z84C9010VSC	PLCC-84	Serial/parallel I/O counter/timer	16.75	14.45	12.65
35799CC	Z8530	DIP-40	2MHz serial communications controller ..	2.49	2.25	1.49
281308CC	Z85C3016PSC	DIP-40	Serial communications controller	13.79	10.45	8.37
61786CC	Z85C3008PSC	DIP-40	Serial communications controller	5.69	5.19	4.39
281316CC	Z85C3008VSC	PLCC-44	Serial communications controller	8.19	6.21	5.25
281324CC	Z8523016VSC	PLCC-44	Enhanced serial comm. controller	15.75	14.45	13.96

6500 Series/Commodore/WDC



Part No.	Cross Ref.	Pkg.	Description	1	10	100
43191CC	6502	DIP-40	MPU with internal clock 1MHz	\$7.95	\$6.95	\$6.25
43166CC	65C02	DIP-40	MPU with internal clock CMOS	6.95	5.25	3.65
43254CC	6522	DIP-40	VIA (versatile interface adapter) 1MHz ..	2.39	2.15	1.94
43297CC	6532	DIP-40	128 x 8 RAM, I/O timer array	7.95	6.99	6.49
43318CC	6551	DIP-28	ACIA (asynch. comm. interface adpdr)	3.95	3.49	3.15
291021CC	W65C816S89-14	DIP-40	16-bit MPU, 254-bit add. bus, 14MHz	11.59	9.99	8.59

6800/68000 Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
43481CC	6800	DIP-40	8-bit MCU	\$6.95	\$5.25	\$3.65
43502CC	6802	DIP-40	8-bit MPU with clock and RAM (1MHz) ..	8.49	7.65	6.89
43529CC	6803	DIP-40	8-bit MCU with 128k RAM	7.79	6.99	6.29
43537CC	MC6808	DIP-40	8-bit MPU with clock and 128k RAM	8.95	8.06	7.25
43545CC	6809E	DIP-40	MPU with external clock (1MHz)	3.95	3.59	3.25
43561CC	6810	DIP-24	128x8 static RAM (1MHz)	1.95	1.69	1.49
43596CC	6821	DIP-40	Peripheral interface adapter (1MHz)	3.95	3.59	3.25
43414CC	68B21	DIP-40	Peripheral interface adapter (2MHz)	4.95	4.49	4.05
43617CC	6840	DIP-28	Programmable timer (1MHz)	2.49	2.25	1.99
43633CC	6850	DIP-24	Asynch. comm. int. adapter (ACIA)	2.39	2.09	1.89
25304CC	MC68000L8	DIP-64	MPU 16-bit (8MHz)	8.95	7.95	7.25
25291CC	MC68000L10	DIP-64	MPU 16-bit (10MHz)	14.95	12.75	9.55
25355CC	MC68701	DIP-40	8-bit EPROM MPU w/ 128B RAM & I/O	15.95	13.95	12.55
25363CC	MC68705P3S	DIP-28	8-bit EPROM MPU w/ 112B RAM & I/O	24.95	22.95	20.65
25371CC	MC68705U3S	DIP-40	8-bit EPROM MPU w/ 112B RAM & I/O	29.95	25.49	19.09
248591CC	MC68HC11E0CFN2	PLCC-52	MCU w/ 512 EPROM & 38 I/O, A/D	10.95	9.85	8.87

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

6800/68000 Series (Con't)

TSSOP



SOIC



Part No.	Cross Ref.	Pkg.	Description	1	10	100
248604CC	MC68HC11E1CFN3	PLCC-52	MCU w/ 512 EPROM & 38 I/O, A/D	\$8.85	\$7.25	\$6.55
191863CC	MC68HC11E1CP2	DIP-48	MCU w/ A/D converter (512B RAM)	15.95	14.35	12.69
248583CC	MC68HC11F1CFN3	PLCC-68	MCU w/ 512 EPROM & 30 I/O, A/D	9.99	7.59	7.15
248647CC	MC68HC705C8ACFN	PLCC-44	MCU, OTP 8k ROM, 31 I/O	7.39	5.45	4.99
108919CC	MC68HC705C8P	DIP-40	MCU, OTP 8k ROM, 24 I/O lines	7.29	6.29	5.80
132484CC	MC68HC705C8S	DIP-40	MCU, 8k bytes, EPROM	38.95	34.95	31.55
248639CC	MC68HC705J1ACDW	SOIC-20	MCU, OTP 1.2k ROM, 14 I/O	3.45	3.09	2.79
132530CC	MC68HC705J1ACP	DIP-20	MCU, OTP 1.0k ROM, 14 I/O	2.09	1.89	1.79
108927CC	MC68HC705K1P	DIP-16	MCU, OTP 504B ROM, 10 I/O timer	5.55	5.35	4.95
248612CC	MC68HC705P6ACP	DIP-28	MCU, OTP 4.5k ROM, 21 I/O A/D	3.95	2.75	2.49
248621CC	MC68HC705P6ADW	SOIC-28	MCU, OTP 4.5k ROM, 21 I/O A/D	3.95	2.75	2.49
248655CC	MC68HC705C9ACFN	PLCC-44	MCU, OTP 16k ROM, 31 I/O	11.75	10.55	9.50
248567CC	MC68HC71D3CFN2	PLCC-44	MCU, OTP 4k ROM, 26 I/O	10.75	9.69	8.71
285675CC	MC68HC705BDT	DIP-40	MCU, OTP 11k ROM, 26 I/O A/D	9.99	8.99	7.99
248575CC	MC68HC71E9CFN2	PLCC-52	MCU, OTP 12k ROM, 38 I/O A/D	13.59	10.49	9.89
248356CC	MC68HC908P32CP	DIP-40	MCU, flash 32k ROM, 33 I/O	12.69	11.39	10.29
248410CC	MC68HC908JB8ADW	SOIC-28	MCU, flash 8k ROM, 21 I/O USB	6.69	5.99	5.45
248401CC	MC68HC908JB8JP	DIP-20	MCU, flash 8k ROM, 37 I/O USB	5.49	5.45	4.65
248372CC	MC68HC908JK3CDW	SOIC-20	MCU, flash 4k ROM, 15 I/O	3.75	3.45	3.09
248364CC	MC68HC908JK3CP	DIP-20	MCU, flash 4k ROM, 15 I/O	3.75	3.45	3.09
248399CC	MC68HC908JL3CDW	SOIC-28	MCU, flash 4k ROM, 23 I/O, A/D	5.45	4.95	4.45
248381CC	MC68HC908JL3CP	DIP-28	MCU, flash 4k ROM, 23 I/O, A/D	4.55	4.35	3.95
248436CC	MC68HC908KX8CDW	SOIC-16	MCU, flash 8k ROM, 13 I/O, A/D	6.29	5.69	5.15
248428CC	MC68HC908KX8CP	DIP-16	MCU, flash 8k ROM, 13 I/O, A/D	5.65	5.45	5.05
248495CC	MC68HC908QT1CDW	SOIC-8	MCU, flash 1.5k ROM, 6 I/O	1.89	1.45	1.30
248487CC	MC68HC908QT1CP	DIP-8	MCU, flash 1.5k ROM, 6 I/O	1.89	1.45	1.30
248479CC	MC68HC908T2CDW	SOIC-8	MCU, flash 1.5k ROM, 6 I/O, A/D	2.39	2.29	2.09
248461CC	MC68HC908T2CP	DIP-8	MCU, flash 1.5k ROM, 6 I/O, A/D	2.85	2.55	2.29
248452CC	MC68HC908T4CDW	SOIC-8	MCU, flash 4k ROM, 6 I/O, A/D	2.69	2.05	1.85
248444CC	MC68HC908T4CP	DIP-8	MCU, flash 4k ROM, 6 I/O, A/D	2.69	1.65	1.43
248559CC	MC68HC908QY1CDT	TSSOP-16	MCU, flash 1.5k ROM, 14 I/O	2.49	2.39	2.19
248541CC	MC68HC908QY1CP	DIP-16	MCU, flash 1.5k ROM, 14 I/O	2.15	1.65	1.49
248532CC	MC68HC908QY2CDT	TSSOP-16	MCU, flash 1.5k ROM, 13 I/O, A/D	2.85	2.69	2.45
248524CC	MC68HC908QY2CP	DIP-16	MCU, flash 1.5k ROM, 13 I/O, A/D	2.55	1.95	1.75
248516CC	MC68HC908QY4CDW	TSSOP-16	MCU, flash 4k ROM, 13 I/O A/D	2.89	2.49	2.25
248508CC	MC68HC908QY4CP	DIP-16	MCU, flash 4k ROM, 13 I/O A/D	2.89	2.49	2.25

8000 Series

DIP



Part No.	Cross Ref.	Pkg.	Description	1	10	100
51844CC	8031	DIP-40	CPU with 128 x 8 RAM and I/O	\$3.29	\$2.99	\$2.69
51676CC	80C31	DIP-40	CPU with 128 x 8 RAM and I/O CMOS	3.39	2.89	2.19
102197CC	8032	DIP-40	8-bit MCU 256 x 8 RAM	3.95	3.59	3.25
108804CC	80C32-1	DIP-40	8-bit MCU 256 x 8 RAM CMOS	4.49	3.85	2.89
51861CC	8035	DIP-40	MPU 8-bit	3.95	3.59	3.25
51959CC	8039	DIP-40	CPU single chip 8-bit (128 bytes RAM)	4.49	3.99	3.59
51692CC	80C39	DIP-40	CPU sggle chip 8-bit (128 bytes RAM) CMOS	3.99	3.39	2.54
51983CC	8049*	DIP-40	CPU sggle chip 8-bit (can be used as 8039*)	1.95	1.75	1.59
51991CC	8051AP**	DIP-40	MCU w/128x8 RAM	4.49	4.99	4.49
52003CC	8052AH**	DIP-40	CPU 8-bit 256 bytes RAM, tmr/countr & I/O	7.99	7.19	6.49
125647CC	80C52BASIC	DIP-40	CPU 8-bit CMOS w/ basic interpreter	32.09	28.89	25.99
52046CC	8080A	DIP-40	CPU 8-bit N-channel (1MHz)	4.49	3.95	3.59
52062CC	8085AH	DIP-40	CPU 8-bit HMOS (3MHz)	4.99	4.49	3.99
52071CC	8085AH-2	DIP-40	CPU 8-bit HMOS (5MHz)	5.49	4.99	4.49
51705CC	80C85A-2	DIP-40	CPU 8-bit CMOS (5MHz)	6.95	5.95	4.45
52100CC	8086-2	DIP-40	CPU 16-bit (8MHz)	1.95	1.75	1.59
52142CC	8088	DIP-40	CPU 16-bit (8-bit data bus) 5MHz	2.49	2.25	1.99
52169CC	8088-2	DIP-40	CPU 16-bit (8-bit data bus) 8MHz	5.95	5.39	4.85
34358CC	UPD70108-8	DIP-40	V20 chip (replaces the 8088-2) 8MHz	10.99	9.99	8.99
22990CC	8155	DIP-40	HMOS RAM I/O port/timer (3MHz)	4.49	4.05	2.99
52302CC	8155-2	DIP-40	HMOS RAM I/O port/timer (5MHz)	5.95	5.39	4.85
52193CC	81C55	DIP-40	256x8 RAM I/O port/tmr CMOS 3MHz	4.49	3.59	3.19
52329CC	8156	DIP-40	RAM with I/O port and timer	6.99	6.29	5.69
52468CC	8212	DIP-24	8-bit input/output (74S412)	6.49	5.99	5.49
52484CC	8216	DIP-16	Bi-directional bus driver (non-invert.)	3.95	3.39	2.55

* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

** Tie pin 31 low to bypass the internal ROM

8000 Series (Continued)

DIP



PLCC



Part No.	Cross Ref.	Pkg.	Description	1	10	100
52492CC	8224	DIP-16	Clock generator/driver	\$2.95	\$2.49	\$2.25
52513CC	8228	DIP-28	System contr./bus driver (74S428)	3.69	3.19	2.36
52581CC	8243	DIP-24	I/O expander for 48 series	5.49	4.99	4.49
52610CC	8250A	DIP-40	Asynchronous comm. element	4.95	4.21	3.15
52644CC	8251	DIP-28	Prog. comm. I/O (USART)	2.99	2.69	2.39
52652CC	8251A	DIP-28	Prog. comm. interface (USART)	3.99	3.69	3.39
52370CC	82C51A	DIP-28	Prog. comm. interface (USART) CMOS	4.49	3.99	3.49
52679CC	8253	DIP-24	Prog. interval timer	3.19	2.89	2.59
52687CC	8253-5	DIP-24	Prog. interval timer (2MHz)	4.99	4.49	3.99
52388CC	82C53-5	DIP-24	Prog. interval timer CMOS 2MHz	4.95	4.25	3.19
52708CC	8254	DIP-24	Prog. interval timer (UPD71054)	4.49	3.99	3.59
52716CC	8254-2	DIP-24	Prog. interval timer (10MHz)	7.35	6.65	5.95
52396CC	82C54	DIP-24	Prog. interval timer CMOS	3.95	3.55	3.19
52409CC	82C54-2	DIP-24	Prog. interval timer CMOS 10MHz	4.49	4.05	3.59
52724CC	8255	DIP-40	Prog. periph. I/O (PPI) 71055 (2MHz)	4.49	3.99	3.49
52732CC	8255A-5	DIP-40	Prog. peripheral I/O (PPI) 5MHz	4.89	4.39	2.89
291805CC	8255AC-5	DIP-40	MPU peripheral I/O (PPI)	4.89	4.39	2.89
52417CC	82C55A	DIP-40	Prog. peripheral I/O (PPI) CMOS	4.99	4.49	3.99
52425CC	82C55A-5	DIP-40	Prog. periph. I/O (PPI) CMOS (5MHz)	4.49	3.99	3.49
52759CC	8256	DIP-40	Multif. universal asynch. rec./trans.	19.99	17.99	16.19
52775CC	8259	DIP-28	Prog. interrupt controller (UPD71059)	1.75	1.55	1.45
52783CC	8259-5	DIP-28	Prog. interrupt controller (8259A-2)	2.49	2.19	1.99
52821CC	8275	DIP-40	Prog. CRT controller	4.95 9.95	9.49	8.25
52839CC	8279	DIP-40	Prog. keyboard/display interface	12.99	11.99	10.99
52847CC	8279-5	DIP-40	Prog. keybrd/display interface (5MHz)	12.95	11.69	10.49
52855CC	8282	DIP-20	Octal latch (UPD71082)	5.49 5.95	4.89	3.45
52871CC	8284A	DIP-18	Clock gen. and driver (UPD71084)	4.49	3.99	3.59
52898CC	8286	DIP-20	Octal bus transceiver (UPD71086)	3.95	3.59	3.25
52901CC	8287	DIP-20	Octal bus transceiver (inverted)	10.99	9.99	8.99
52919CC	8288	DIP-20	Bus controller (UPD71088) 82C88-2	1.95	1.65	1.25
53006CC	8741	DIP-40	8-bit univ. periph. interface (EPROM)	7.99	7.19	6.49
53014CC	8742	DIP-40	8-bit univ. peripheral interface	9.95	8.49	6.35
53022CC	8748	DIP-40	CPU 8-bit, EPROM, RAM & I/O (21V)	13.95	12.56	11.11
53031CC	8748H	DIP-40	CPU 8-bit, EPROM, RAM & I/O HMOS (21V)	15.95	14.49	12.99
53057CC	8749H	DIP-40	MPU 8-bit (EPROM version 8049)	22.99	19.49	15.95
53073CC	8751	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-8MHz)	19.99	17.99	16.19
53081CC	8751H	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (1.2-12MHz)	24.95	20.25	14.99
52978CC	87C51	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-12MHz)	21.99	19.79	17.49
196120CC	P87C51	DIP-40	CPU w/ 4k EPROM & 128x8 RAM (3.5-12MHz) OTP	8.99	8.09	7.29
53090CC	8755	DIP-40	16k EPROM with I/O	8.95	8.09	7.29
248701CC	T89C51RB2	PLCC-44	MCU, flash 16k ROM, 32 I/O	8.65	7.79	7.05
248719CC	T89C51RC2	PLCC-44	MCU, flash 32k ROM, 32 I/O	10.25	9.19	8.29
248727CC	T89C51RD2	PLCC-44	MCU, flash 64k ROM, 32 I/O	13.45	12.15	10.89



PIC Microcontrollers

DIP



SOIC



Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
310973CC	PIC10F200-I/P	DIP-8	Flash	4	384	16	4	\$.88	\$.82
310981CC	PIC10F202-I/P	DIP-8	Flash	4	768	24	4	1.03	.94
311010CC	PIC10F204-I/P	DIP-8	Flash	4	384	16	4	1.02	.94
311028CC	PIC10F206-I/P	DIP-8	Flash	4	768	24	4	1.16	1.08
145040CC	PIC12C508A-04/P	DIP-8	OTP	4	512	25	5	1.49	.99
145058CC	PIC12C509A/JW	DIP-8	EPROM	4	1k	41	5	13.95	12.59
144258CC	PIC12C509A-04/P	DIP-8	OTP	4	1k	41	5	1.49	1.09
200475CC	PIC12CE518-04/P	DIP-8	OTP	4	512	25	6	1.79	1.55
200483CC	PIC12CE519-04/P	DIP-8	OTP	4	1k	41	6	1.99	1.69
193455CC	PIC12C671-04/P	DIP-8	OTP	4	1k	128	6	2.79	2.29
193463CC	PIC12C672-04/P	DIP-8	OTP	4	2k	128	6	2.79	2.19
248137CC	PIC12CE673-10/P	DIP-8	OTP	10	1k	128	5	3.39	3.19
248145CC	PIC12CE674-10/P	DIP-8	OTP	10	2k	128	5	3.45	2.89
223790CC	PIC12F629-I/P	DIP-8	Flash	20	1k	64	6	1.59	1.39
247193CC	PIC12F629-I/SN	SOIC-8	Flash	20	1k	64	6	1.59	1.29
312493CC	PIC12F635-I/P	DIP-8	Flash	20	2k	64	6	1.79	1.66
312506CC	PIC12F635-I/SN	SOIC-8	Flash	20	2k	64	6	1.79	1.66
223781CC	PIC12F675-I/P	DIP-8	Flash	20	1k	64	6	1.99	1.69
247206CC	PIC12F675-I/SN	SOIC-8	Flash	20	1k	64	6	1.99	1.29
312514CC	PIC12F683-I/P	DIP-8	Flash	20	4k	128	6	2.19	2.05

Color Code Legend

New Sale Qty. Save Refurbished Pull

Order 24/7 Toll Free 1-800-831-4242

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

MICROCHIP PIC Microcontrollers

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
312522CC	PIC12F683-I/5N	SOIC-8	Flash	20	4k	128	6	\$2.19	\$2.05
247361CC	PIC14000-4/SP	DIP-28	OTP	4	4k	192	22	11.99	11.45
247370CC	PIC14000-4/SO	SOIC-28	OTP	4	4k	192	22	11.65	11.55
200459CC	PIC16C505-04/P	DIP-14	OTP	20	1k	72	12	1.99	1.29
247329CC	PIC16C505-20I/P	DIP-14	OTP	20	1k	72	11	2.05	1.85
247337CC	PIC16C505-20I/SL	SOIC-14	OTP	20	1k	72	11	1.99	1.69
128338CC	PIC16C54A-04/P	DIP-18	OTP	4	512	25	12	3.59	2.59
247214CC	PIC16C54C-20I/P	DIP-18	OTP	20	512	25	12	2.35	2.05
247222CC	PIC16C54C-20I/SO	SOIC-18	OTP	20	512	25	12	2.35	2.15
247231CC	PIC16C54C-20I/SS	SSOP-20	OTP	20	512	25	12	2.55	2.35
247345CC	PIC16HV540-20/P	DIP-18	OTP	20	512	25	12	2.35	2.05
247353CC	PIC16HV540-20/SO	SSOP-20	OTP	20	512	25	12	2.35	2.00
200416CC	PIC16C55A-04/P	DIP-28	OTP	4	512	24	20	2.69	2.19
247249CC	PIC16C55A-20I/P	DIP-28	OTP	20	512	24	20	2.95	2.85
247257CC	PIC16C55A-20I/SO	SOIC-28	OTP	20	512	24	20	3.05	2.75
247388CC	PIC16C55A-4/P	DIP-18	OTP	4	512	80	13	3.75	3.65
247396CC	PIC16C55A-4/SO	SOIC-18	OTP	4	512	80	13	3.85	3.75
247409CC	PIC16C558-20/P	DIP-18	OTP	20	2k	128	13	4.59	3.87
247417CC	PIC16C558-20/SO	SOIC-18	OTP	20	2k	128	13	4.95	4.85
134172CC	PIC16C56-RC/P	DIP-18	OTP	20	1k	25	12	4.49	3.69
247265CC	PIC16C56A-20I/P	DIP-18	OTP	20	1k	25	12	2.85	2.55
247273CC	PIC16C56A-20I/SO	SOIC-18	OTP	20	1k	25	12	2.65	2.35
213495CC	PIC16C57C/JW	DIP-28	EPROM	40	2k	72	20	13.95	12.95
193341CC	PIC16C57C-04/P	DIP-28	OTP	4	2k	72	20	3.19	2.09
247281CC	PIC16C57C-20/P	DIP-28	OTP	20	2k	72	20	3.45	3.05
247290CC	PIC16C57C-20/SO	SOIC-28	OTP	20	2k	72	20	3.65	3.25
247302CC	PIC16C58B-20/P	DIP-18	OTP	20	2k	73	12	2.75	2.45
247311CC	PIC16C58B-20/SO	SOIC-18	OTP	20	2k	73	12	2.85	2.55
247433CC	PIC16C62B-20/SO	SOIC-28	OTP	20	2k	128	22	4.45	3.95
247425CC	PIC16C62B-20/SP	DIP-28	OTP	20	2k	128	22	4.45	3.95
247505CC	PIC16C620A-20I/P	DIP-18	OTP	20	512	96	13	2.25	2.05
247513CC	PIC16C620A-20I/SO	SOIC-18	OTP	20	512	96	13	2.35	2.05
247521CC	PIC16C621A-20I/P	DIP-18	OTP	20	1k	96	13	2.55	2.45
247530CC	PIC16C621A-20I/SO	SOIC-18	OTP	20	1k	96	13	2.59	2.19
193383CC	PIC16C622A-04/P	DIP-18	OTP	4	2k	128	13	2.69	2.29
247548CC	PIC16C622A-20I/P	DIP-18	OTP	20	2k	128	13	3.15	2.69
247556CC	PIC16C622A-20I/SO	SOIC-18	OTP	20	2k	128	13	3.25	2.85
312531CC	PIC16F54-I/P	DIP-18	Flash	20	512	25	12	1.79	1.73
312549CC	PIC16F54-I/SO	SOIC-18	Flash	20	512	25	12	1.79	1.73
312557CC	PIC16F57-I/P	DIP-28	Flash	20	2k	72	20	2.39	2.29
312565CC	PIC16F57-I/SO	SOIC-28	Flash	20	2k	72	20	2.29	2.21
193439CC	PIC16F627-20/P	DIP-18	Flash	20	1k	224	16	3.29	2.55
193447CC	PIC16F628-20/P	DIP-18	Flash	20	2k	224	16	3.69	2.69
246730CC	PIC16F628-20/SO	SOIC-18	Flash	20	2k	224	16	3.79	2.85
246748CC	PIC16F628-20/SS	SSOP-20	Flash	20	2k	224	16	4.05	3.15
246756CC	PIC16F628-20I/P	DIP-18	Flash	20	2k	224	16	4.05	3.15
246764CC	PIC16F628-20I/SO	SOIC-18	Flash	20	2k	224	16	4.09	3.02
193324CC	PIC16C63A-20/SP	DIP-28	OTP	20	4k	192	22	5.49	4.49
223749CC	PIC16F630-I/P	DIP-14	Flash	20	1k	64	12	1.89	1.59
247126CC	PIC16F630-I/SL	SOIC-14	Flash	20	1k	128	12	1.85	1.65
247134CC	PIC16F630-I/ST	TSSOP-14	Flash	20	1k	128	12	2.05	1.85
312573CC	PIC16F636-I/P	DIP-14	Flash	20	2k	128	12	2.09	1.91
312581CC	PIC16F636-I/ST	TSSOP-14	Flash	20	2k	128	12	2.19	1.70
247142CC	PIC16F648A-I/P	DIP-18	Flash	20	4k	256	16	3.25	2.55
247151CC	PIC16F648A-I/SO	SOIC-18	Flash	20	4k	256	16	3.25	2.55
247169CC	PIC16F648A-I/SS	SSOP-20	Flash	20	4k	256	16	3.59	2.66
247450CC	PIC16C65B-20I/L	PLCC-44	OTP	20	4k	192	33	7.85	7.75
247441CC	PIC16C65B-20I/P	DIP-40	OTP	20	4k	192	33	6.79	5.69
200424CC	PIC16C66-04/SP	DIP-18	OTP	4	8k	368	22	7.45	6.45
247476CC	PIC16C66-20I/SO	SOIC-28	OTP	20	8k	368	22	8.75	7.75
247468CC	PIC16C66-20I/SP	DIP-28	OTP	20	8k	368	22	8.75	7.75
247492CC	PIC16C67-20/L	PLCC-44	OTP	20	8k	368	33	9.15	8.95
247484CC	PIC16C67-20/P	DIP-40	OTP	20	8k	368	33	8.75	7.75
223757CC	PIC16F676-I/P	DIP-14	Flash	20	1k	64	12	2.19	1.79
247177CC	PIC16F676-I/SL	SOIC-14	Flash	20	1k	64	12	2.15	1.95

MICROCHIP PIC Microcontrollers

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
247185CC	PIC16F676-I/ST	TSSOP-14	Flash	20	1k	64	12	\$2.35	\$2.00
312590CC	PIC16F684-I/P	DIP-14	Flash	20	2k	128	12	2.35	2.17
312602CC	PIC16F684-I/ST	TSSOP-14	Flash	20	2k	128	12	2.59	2.37
312611CC	PIC16F688-I/P	DIP-14	Flash	20	4k	256	12	2.79	2.59
312629CC	PIC16F688-I/ST	TSSOP-14	Flash	20	4k	256	12	3.05	2.79
247581CC	PIC16C710-20/P	DIP-18	OTP	20	512	36	13	3.95	3.05
193359CC	PIC16C711-04/P	DIP-18	OTP	4	1k	68	13	3.99	2.29
247599CC	PIC16C711-20/P	DIP-18	OTP	20	1k	68	13	4.65	3.42
247601CC	PIC16C711-20/SO	SOIC-18	OTP	20	1k	68	13	4.75	3.49
247610CC	PIC16C712-20/P	DIP-18	OTP	20	1k	128	13	3.45	2.85
247628CC	PIC16C712-20/SO	SOIC-18	OTP	20	1k	128	13	3.55	2.95
247636CC	PIC16C715-20/P	DIP-18	OTP	20	2k	68	13	4.75	3.49
247644CC	PIC16C715-20/SO	SOIC-18	OTP	20	2k	68	13	4.85	4.05
247652CC	PIC16C716-20/P	DIP-18	OTP	20	2k	128	13	4.25	3.25
247661CC	PIC16C716-20/SO	SOIC-18	OTP	20	2k	128	13	4.25	3.35
247679CC	PIC16C717-I/P	DIP-20	OTP	20	2k	256	16	4.15	3.15
247687CC	PIC16C717-SO	SOIC-20	OTP	20	2k	256	16	3.75	2.95
200432CC	PIC16C72A-04/SP	DIP-28	OTP	4	2k	128	22	4.99	4.39
247695CC	PIC16C72A-20I/P	DIP-28	OTP	20	2k	128	22	5.85	5.15
247708CC	PIC16C72A-20I/SO	SOIC-28	OTP	20	2k	128	22	5.85	5.15
312637CC	PIC16F716-I/P	DIP-28	Flash	20	2k	128	13	2.35	2.17
312645CC	PIC16F716-I/SO	SOIC-18	Flash	20	2k	128	13	2.35	2.17
312661CC	PIC16F72-I/SO	SOIC-18	Flash	20	2k	128	13	3.15	2.90
312653CC	PIC16F72-I/SP	DIP-18	Flash	20	2k	128	13	3.15	2.90
193391CC	PIC16F73-I/SP	DIP-28	Flash	20	4k	192	5	5.19	4.19
246801CC	PIC16F73-I/SO	SOIC-28	Flash	20	4k	192	22	5.15	4.55
246810CC	PIC16F73-I/SS	SSOP-28	Flash	20	4k	192	22	5.25	4.65
200441CC	PIC16C73A-04/SP	DIP-28	OTP	4	4k	192	22	8.65	7.79
312688CC	PIC16F737-I/SO	SOIC-28	Flash	20	4k	368	25	5.55	4.75
312670CC	PIC16F737-I/SP	DIP-28	Flash	20	4k	368	25	5.39	4.65
145091CC	PIC16C74A/JW	DIP-40	EPROM	20	14k	192	33	19.95	17.99
246772CC	PIC16F74-I/L	PLCC-44	Flash	20	4k	192	33	6.95	6.45
193404CC	PIC16F74-I/P	DIP-40	Flash	20	4k	192	8	6.19	5.19
246781CC	PIC16F74-I/P	TOFP-44	Flash	20	4k	192	33	7.45	6.55
247804CC	PIC16C745-I/SO	SOIC-28	OTP	24	8k	256	22	5.15	3.95
247791CC	PIC16C745-I/SP	DIP-28	OTP	24	8k	256	22	5.15	3.95
312696CC	PIC16F747-I/P	DIP-40	Flash	20	4k	368	36	6.45	5.45
246828CC	PIC16F76-I/SO	SOIC-28	Flash	20	8k	368	22	6.35	5.65
193412CC	PIC16F76-I/SP	DIP-28	Flash	20	8k	368	5	6.49	5.39
246836CC	PIC16F76-I/SS	SSOP-28	Flash	20	8k	368	22	6.49	5.52
312717CC	PIC16F767-I/SO	SOIC-28	Flash	20	8k	368	25	6.69	5.47
312709CC	PIC16F767-I/SP	DIP-28	Flash	20	8k	368	25	6.29	5.36
247821CC	PIC16C765-I/L	PLCC-44	OTP	24	8k	256	33	6.39	5.42
247812CC	PIC16C765-I/P	DIP-40	OTP	24	8k	256	33	6.09	4.49

Programming & Customizing PICmicro Microcontrollers

Second Edition

McGraw-Hill Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. Shows what happens within the PICmicro® when an instruction is executed and how it interfaces with external devices. (1190 pages, 2001)

Includes: CD-ROM and PIC PCB

Part No.	Description	Size	Wt. (lbs.)	Price
183046CC	PICmicro Programming	9.2" x 7.3"	4.0	\$49.95

Time'n and Count'n

Intermediate Level PIC Applications

Square 1 Publishing This book previously appeared in PIC'n Techniques book. The more current PIC16F870 is substituted for the PIC16C63. Topics such as test equipment for timing & counting experiments to using timer 1 & 2, and capture/compare/PWM as well as programs are included in this book. (218 pages, 2002)

• Size: 8.5" x 11.0"

• Weight: 1.4 lbs.

Part No.	Description	Price
210489CC	Time'n and Count'n	\$34.95

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

MICROCHIP PIC Microcontrollers

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
246799CC	PIC16F77-I/L	PLCC-44	Flash	20	8k	368	33	\$7.85	\$6.99
193421CC	PIC16F77-I/P	DIP-40	Flash	20	8k	368	8	7.09	5.89
247716CC	PIC16C770-I/P	DIP-20	OTP	20	2k	256	16	4.15	3.15
247724CC	PIC16C770-SO	SOIC-20	OTP	20	2k	256	16	3.69	2.72
247732CC	PIC16C771-I/P	DIP-20	OTP	20	2k	256	16	4.45	3.45
247741CC	PIC16C771-I/SO	SOIC-20	OTP	20	2k	256	16	4.55	3.45
247759CC	PIC16C773-I/SP	DIP-28	OTP	20	4k	256	22	7.05	6.25
247767CC	PIC16C773-I/SO	SOIC-28	OTP	20	4k	256	22	7.05	6.25
247783CC	PIC16C774-I/L	PLCC-44	OTP	20	4k	256	33	9.05	8.52
247775CC	PIC16C774-I/P	DIP-40	OTP	20	4k	256	33	8.49	7.21
312725CC	PIC16F777-I/P	DIP-40	Flash	20	8k	368	36	6.89	5.90
223765CC	PIC16F818-I/P	DIP-18	Flash	20	1k	128	16	3.09	2.29
247054CC	PIC16F818-I/SO	SOIC-18	Flash	20	1k	128	16	3.15	2.45
247062CC	PIC16F818-I/SS	SSOP-20	Flash	20	1k	128	16	3.35	2.65
223773CC	PIC16F819-I/P	DIP-18	Flash	20	2k	256	16	3.59	2.59
247089CC	PIC16F819-I/SO	SOIC-18	Flash	20	2k	256	16	3.55	2.75
247071CC	PIC16F819-I/SS	SSOP-20	Flash	20	2k	256	16	3.85	2.95
145111CC	PIC16F84-04/P	DIP-18	Flash	4	1k	68	13	6.59	4.39
145120CC	PIC16F84-10/P	DIP-18	Flash	10	1k	68	13	7.09	5.99
193332CC	PIC16F84A-20/P	DIP-18	Flash	20	1k	68	13	5.79	4.69
246844CC	PIC16F84A-20/SO	SOIC-18	Flash	20	1k	68	13	5.75	5.05
246852CC	PIC16F84A-20/SS	SSOP-20	Flash	20	1k	68	13	6.15	5.75
246861CC	PIC16F84A-20I/P	DIP-18	Flash	20	1k	68	13	6.25	5.55
246879CC	PIC16F84A-20I/SO	SOIC-18	Flash	20	1k	68	13	6.35	5.55
246887CC	PIC16F84A-20I/SS	SSOP-20	Flash	20	1k	68	13	6.75	6.25
247097CC	PIC16F87-I/P	DIP-18	Flash	20	4k	368	16	4.05	3.15
247100CC	PIC16F87-I/SO	SOIC-18	Flash	20	4k	368	16	4.15	3.15
247118CC	PIC16F87-I/SS	SSOP-20	Flash	20	4k	368	16	4.45	3.65
246908CC	PIC16F870-I/SO	SOIC-28	Flash	20	2k	128	22	4.35	3.69
246895CC	PIC16F870-I/SP	DIP-28	Flash	20	2k	128	22	4.35	3.69
246916CC	PIC16F870-I/SS	SSOP-28	Flash	20	2k	128	22	4.49	3.81
246932CC	PIC16F871-I/L	PLCC-44	Flash	20	2k	128	33	5.85	5.65
246924CC	PIC16F871-I/P	DIP-40	Flash	20	2k	128	33	5.15	4.65
246959CC	PIC16F872-I/SO	SOIC-28	Flash	20	2k	128	22	4.35	3.69
246941CC	PIC16F872-I/SP	DIP-28	Flash	20	2k	128	22	4.35	3.69
246967CC	PIC16F872-I/SS	SSOP-28	Flash	20	2k	128	22	4.49	3.81
246983CC	PIC16F873A-I/SO	SOIC-28	Flash	20	4k	192	22	6.25	5.55
246975CC	PIC16F873A-I/SP	DIP-28	Flash	20	4k	192	22	6.29	5.19
247003CC	PIC16F874A-I/L	PLCC-44	Flash	20	4k	192	33	7.55	6.73
246991CC	PIC16F874A-I/P	DIP-40	Flash	20	4k	192	33	6.75	5.95
247020CC	PIC16F876A-I/SO	SOIC-28	Flash	20	8k	368	22	6.65	5.85
247011CC	PIC16F876A-I/SP	DIP-28	Flash	20	8k	368	22	6.65	5.85
193367CC	PIC16F876-20/SP	DIP-28	Flash	20	256	368	22	7.89	6.69
247046CC	PIC16F877A-I/L	PLCC-44	Flash	20	8k	368	33	8.15	7.65
247038CC	PIC16F877A-I/P	DIP-40	Flash	20	8k	368	33	7.25	5.05
176882CC	PIC16F877-20/P	DIP-40	Flash	20	256	368	33	9.49	8.49
312733CC	PIC16F88-I/P	DIP-18	Flash	20	7k	368	16	4.15	3.35
312741CC	PIC16F88-I/SO	SOIC-18	Flash	20	7k	368	16	4.25	3.42
247847CC	PIC16C923-04I/L	PLCC-68	OTP	4	4k	176	52	6.29	6.11
247880CC	PIC17C42A-16/L	PLCC-44	OTP	16	2k	232	33	10.39	9.64
247871CC	PIC17C42A-16/P	DIP-40	OTP	16	2k	232	33	9.39	8.29
247901CC	PIC17C43-25/L	PLCC-44	OTP	25	4k	454	33	13.85	12.95

MICROCHIP PIC Microcontrollers

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
247898CC	PIC17C43-25/P	DIP-40	OTP	25	4k	454	33	\$11.85	\$10.45
247927CC	PIC17C44-33/L	PLCC-44	OTP	33	8k	454	33	15.39	13.59
247919CC	PIC17C44-33/P	DIP-40	OTP	33	8k	454	33	14.75	12.40
247935CC	PIC17C752-33/L	PLCC-68	OTP	33	8k	678	50	13.95	12.95
247943CC	PIC17C756A-33I/L	PLCC-68	OTP	33	16k	902	50	16.05	14.89
247951CC	PIC17C762-16/L	PLCC-84	OTP	33	8k	678	66	16.75	16.65
247960CC	PIC17C766-33I/L	PLCC-84	OTP	33	16k	902	66	19.25	17.89
248090CC	PIC18F1220-I/P	DIP-18	Flash	40	2k	256	16	4.35	3.89
248102CC	PIC18F1220-I/SO	SOIC-18	Flash	40	2k	256	16	4.35	3.89
248111CC	PIC18F1320-I/P	DIP-18	Flash	40	4k	256	16	4.89	4.40
248129CC	PIC18F1320-I/SO	SOIC-18	Flash	40	4k	256	16	4.89	4.40
311861CC	PIC18F2220-I/SP	DIP-28	Flash	40	4k	512	25	6.69	6.15
311917CC	PIC18F2320-I/SO	SOIC-28	Flash	40	8k	512	25	7.05	6.65
311909CC	PIC18F2320-I/SP	DIP-28	Flash	40	8k	512	25	7.05	6.64
311984CC	PIC18F2331-I/SO	SOIC-28	Flash	40	8k	512	25	7.79	7.17
311950CC	PIC18F2331-I/SP	DIP-28	Flash	40	8k	768	24	7.85	7.21
247986CC	PIC18F242-I/SO	SOIC-28	Flash	40	8k	768	23	7.39	6.61
247978CC	PIC18F242-I/SP	DIP-28	Flash	40	8k	768	23	7.39	6.61
312291CC	PIC18F248-I/SO	SOIC-28	Flash	40	16k	768	22	8.49	7.85
312282CC	PIC18F248-I/SP	DIP-28	Flash	40	16k	768	22	8.49	7.82
248006CC	PIC18F252-I/SO	SOIC-28	Flash	40	16k	1536	23	8.05	7.20
247994CC	PIC18F252-I/SP	DIP-28	Flash	40	16k	1536	23	8.05	7.20
200504CC	PIC18C252-I/SP	DIP-28	OTP	40	32k	1536	23	7.75	6.95
312098CC	PIC18F2431-I/SO	SOIC-28	Flash	40	16k	768	24	8.05	7.45
312071CC	PIC18F2431-I/SP	DIP-28	Flash	40	16k	768	24	8.09	7.46
312274CC	PIC18F2439-I/SO	SOIC-28	Flash	40	12k	640	21	7.09	6.52
312231CC	PIC18F2439-I/SP	DIP-28	Flash	40	12k	640	21	7.09	6.52
248022CC	PIC18F258-I/SO	SOIC-28	Flash	40	16k	1536	23	9.65	8.62
248014CC	PIC18F258-I/SP	DIP-28	Flash	40	16k	1536	23	9.65	8.62
312311CC	PIC18F2525-I/SO	SOIC-28	Flash	40	48k	3986	25	8.75	7.70
312303CC	PIC18F2525-I/SP	DIP-28	Flash	40	48k	3986	25	9.05	8.00
312346CC	PIC18F2539-I/SO	SOIC-28	Flash	40	24k	1408	21	7.75	7.10
312338CC	PIC18F2539-I/SP	DIP-28	Flash	40	24k	1408	21	7.69	7.10
312400CC	PIC18F4220-I/P	DIP-40	Flash	40	4k	512	36	7.15	6.77
312426CC	PIC18F4320-I/P	DIP-40	Flash	40	8k	512	36	7.95	7.30
312434CC	PIC18F4331-I/P	DIP-40	Flash	40	8k	768	36	8.89	7.86
248081CC	PIC18F442-I/L	PLCC-44	Flash	40	8k	768	34	9.59	8.63
248073CC	PIC18F442-I/P	DIP-40	Flash	40	8k	768	34	8.15	7.35
312451CC	PIC18F4431-I/P	DIP-40	Flash	40	16k	768	36	8.85	8.15
312442CC	PIC18F4439-I/P	DIP-40	Flash	40	12k	640	32	7.89	7.26

Easy Microcontrol'n

Beginners Guide (Version 4)

Square 1 Publishing A revision of and successor to Easy PIC'n that covers Peripheral Interface Controller (PIC) PIC16F84, writing programs, interrupts, timing and counting. (178 pages, 2002)

Part No.	Description	Size	Weight	Price
215061CC	Easy Microcontrol'n	8.5" x 11.0"	1.2 lbs.	\$29.95

For additional Microcontroller Books
see pages 10 & 12.



Serial Communications

Serial Communications PIC Applications

Square 1 Publishing Topics such as asynchronous serial communications, RS242 standard, ASCII character code, bit-bang asynchronous communications and synchronous serial communications to name a few are covered in this book as well as tool box modules and applications. (566 pages, 2002)

• Size: 8.6" x 11.0" • Weight: 3.5 lbs.



Part No.	Description	Price
210497CC	Serial Communications	\$49.95

Microcontrol'n Apps

PIC Microcontroller Applications (Version 2)

Square 1 Publishing This book is a revision of and the successor to PIC'n Up The Pace. Materials covered in the book include talking to a PIC microcontroller with a PC running a terminal, simple data logger and digital voltmeter experiment, PIC16F87x and 10-bit A/D conversion. (437 pgs, 2002)

• Size: 8.5" x 11.0" • Weight: 1.7 lbs.



Part No.	Description	Price
215052CC	Microcontrol'n Apps	\$44.95

PIC Microcontroller Project Book

Comprehensive Beginner's Guide

McGraw-Hill Hands-on directions for putting Microchip's RISC-based chips with up to 8k of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. Provides you guidance on getting the equipment you need and programming your chip. (203 pages, 2000) • Size: 7.3" x 9.2" • Wt.: 1.0 lbs.



Part No.	Description	Price
174650CC	PIC Beginner's Guide	\$29.95

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

MICROCHIP PIC Microcontrollers									
Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
312477CC	PIC18F448-I/L	PLCC-44	Flash	40	16k	768	33	\$9.65	\$9.22
312469CC	PIC18F448-I/P	DIP-40	Flash	40	16k	768	33	8.69	8.05
200512CC	PIC18C452-I/P	DIP-40	OTP	40	32k	1536	23	9.19	7.49
200521CC	PIC18C452/JW	DIP-40	EPROM	40	32k	1536	23	22.85	20.55
248049CC	PIC18F452-I/L	PLCC-44	Flash	40	16k	1536	34	10.29	9.26
248031CC	PIC18F452-I/P	DIP-40	Flash	40	16k	1536	34	8.85	7.99
312485CC	PIC18F4539-I/P	DIP-40	Flash	40	24k	1408	32	8.55	7.86
248065CC	PIC18F458-I/L	PLCC-44	Flash	40	16k	1536	34	11.15	10.05
248057CC	PIC18F458-I/P	DIP-40	Flash	40	16k	1536	34	9.79	8.75

microEngineering Labs LAB-X1 Experimenter's Module Board

The LAB-X1 is a pre-assembled experimenter's platform. It provides an assembled testbed containing most of the circuitry commonly used with PICmicro microcontrollers (MCUs). Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.



- 40-pin ZIF socket for PICmicro MCU (not included, PIC16F877-20/P recommended)
- Reset button • 16 switch keypad • 3 potentiometers • LED bargraph
- 2 lines x 20 characters LCD module • Speaker • 2 RC servo connectors
- RS232 interface • Socket for RS485 interface (device not included)
- Socket for I2C & SPI serial EEPROM (device not included)
- Socket for Microwire serial EEPROM (device not included)
- Socket for real time clock/serial analog to digital converter (devices not included) • One-year warranty
- EPIC in-circuit programming connector • Prototyping area for additional circuit
- Wiring for microchip in-circuit debug connector • Size: 5.5" x 5.6"

Requires: AC adapter (below)

Part No.	Description	1	10
169113CC	LAB-X1 Experimenter Board	\$199.95	\$189.95
176903CC	LAB-X1 Experimenter Board Kit (unassembled)	139.95	132.95
198168CC	LAB-X2 for 28 and 40-pin MCUs	69.05	65.00
198176CC	LAB-X3 for 18-pin MCUs	119.95	107.95
176882CC	PIC16F877-20/P microcontroller (pg 11)	9.49	8.49
127976CC	AC adapter (details on page 162)	4.75	4.29

microEngineering Labs EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 9.



- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming • PICmicro Assembler software included

Requires: Two 9V batteries or AC adapter (below)

Part No.	Description	1	10
132679CC	EPIC Plus PICmicro programmer	\$59.95	\$53.95
136397CC	8/18/20-pin ZIF adapter	34.95	31.95
132610CC	40/28-pin ZIF adapter	34.95	31.95
162317CC	AC wall adapter (16VDC/500mA, details on page 162)	7.95	6.95
67256CC	6' DB25 cable (details on page 80)	6.45	5.79




PIC BASIC Programming and Projects

Newnes Publications The BASIC language, is introduced from square one, with simple code used to illustrate each of the most commonly used instructions. PIC BASIC is the simplest and quickest way to get up and running – designing and building circuits using a microcontroller. (210 pages, 2001)



Part No.	Description	Size	Weight	1	10
200168CC	PIC BASIC Programming	6.1" x 9.2	0.8 lbs.	\$37.95	\$36.05

Texas Instruments			Microcontrollers		SSOP		
Part No.	Product No.	Pkg.	Description	1	10	100	
248663CC	MSP430F1121AIPW	SSOP-20	MCU, flash 8MHz 8k ROM, 15 I/O	\$3.55	\$3.45	\$3.09	
248680CC	MSP430F1231PW	SSOP-28	MCU, flash 8MHz 8k ROM, 15 I/O	4.79	4.69	4.25	

ATMEL Microcontrollers					
Part No.	Product No.	Pkg.	Description	1	25
248330CC	ATMEGA8-16PI	DIP-28	8-bit MCU, 16MHz 8kB flash	\$5.25	\$4.41
248153CC	ATTINY11-6PC	DIP-8	8-bit MCU, 6MHz 1kB flash	1.48	1.32
248161CC	ATTINY11-6SI	SOIC-8	8-bit MCU, 6MHz 1kB flash	1.79	1.51
248170CC	ATTINY12-8PC	DIP-8	8-bit MCU, 8MHz 1kB flash	1.85	1.59
248188CC	ATTINY12-8SI	SOIC-8	8-bit MCU, 8MHz 1kB flash	1.99	1.69
248196CC	ATTINY15L-1PC	DIP-8	8-bit MCU, 1.6MHz 1kB flash	2.99	2.53
248209CC	ATTINY15L-1SI	SOIC-8	8-bit MCU, 1.6MHz 1kB flash	2.99	2.53
248217CC	ATTINY26-16PC	DIP-20	8-bit MCU, 16MHz 2kB flash	2.49	2.11
248225CC	ATTINY26-16SI	SOIC-20	8-bit MCU, 16MHz 2kB flash	2.59	2.25
248233CC	ATTINY28L-4PC	DIP-28	8-bit MCU, 4MHz 2kB flash	2.25	1.88
248348CC	ATMEGA8515-16JI	PLCC-44	8-bit MCU, 16MHz 8kB flash	5.19	4.52
168866CC	AT89C1051-24PC	DIP-20	8-bit MCU, 24MHz 1kB flash mem.	2.65	2.15
168874CC	AT89C2051-24PC	DIP-20	8-bit MCU, 24MHz 2kB flash mem.	\$3.59 2.49	2.39
265332CC	AT89C2051-12PC	DIP-20	8-bit MCU, 12MHz 2kB flash MCU mem. ...	3.29	2.85
204089CC	AT89C4051-24PC	DIP-20	8-bit MCU, 24MHz 4kB flash mem. 8-bit ..	\$4.49 2.99	1.69
168911CC	AT89C51-24JC	PLCC-44	8-bit MCU w/ 4kB flash	3.79	3.39
168903CC	AT89C51-24PC	DIP-40	8-bit MCU, 24MHz 4kB flash memory	4.49	3.99
168920CC	AT89C52-24PC	DIP-40	8-bit MCU, 24MHz 8kB flash memory	\$4.99 3.39	2.79
220871CC	AT89S52-24JI	PLCC-44	8-bit MCU, 8kB programmable flash	3.99	3.69
168946CC	AT89C55WD-24PC	DIP-40	8-bit MCU, 24MHz 20kB flash memory	\$7.99 9.99	6.79
204097CC	AT89S8252-24PC	DIP-40	8-bit MCU, 24MHz 8kB flash mem. 2kB EEPROM ..	\$6.75 4.69	3.69
204100CC	AT90S1200-12PC	DIP-20	20 AVR 8-bit RISC MCU, 12MHz 1kB prog. flash....	2.39	1.99
248241CC	AT90S1200A-12SC	SOIC-20	8-bit AVR MCU, 12MHz 1kB prog. flash	2.89	2.45
248250CC	AT90S2313-10PC	DIP-20	8-bit AVR MCU, 10MHz 2kB prog. flash	3.25	2.69
248268CC	AT90S2313-10SI	SOIC-20	8-bit AVR MCU, 10MHz 2kB prog. flash	2.65	2.39
204118CC	AT90S2323-10PC	DIP-8	8-bit AVR MCU, 10MHz 2kB prog. flash	2.59	2.29
248276CC	AT90S2323-10SI	SOIC-8	8-bit AVR MCU, 10MHz 2kB prog. flash	3.25	2.79
248284CC	AT90S2343-10PC	DIP-8	8-bit AVR MCU, 10MHz 2kB prog. flash	2.99	2.63
248292CC	AT90S2343-10SI	SOIC-8	8-bit AVR MCU, 10MHz 2kB prog. flash	3.49	2.74
204126CC	AT90S8515-8PC	DIP-40	8-bit AVR MCU, 8MHz 8kB prog. flash	7.95	5.79

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

Get PICky, Save More Time!

While we all know that products like the PIC microcontroller have greatly simplified the development of embedded applications, we're always looking for quicker ways to get the job done.

Reference designs, app notes and software snippets all help shave precious time from the development cycle. And while you're probably already using reference designs and app notes, you're probably not fully aware of the software support available.

Before you spec your next project, be sure to google "PIC software". You'll be surprised at the amount of software that is added to the public domain on a weekly basis. And the breadth of software is equally amazing. Whether you need a supporting RTOS or a thermocouple transform, you can be sure that in very little time, you'll find code snippets that will save you a great deal of development and debugging time.



Practical Practices
Money Saving Tips for the Engineer

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

Stamp Microcontrollers



80C52-BASIC Microcontroller

The 80C52-BASIC chip is a custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM

Hardware: • On-chip oscillator & clock circuit • Operates DC to 12MHz

Software: • Full BASIC interpreter in ROM on a single chip

• "Stand-alone" software development

• Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10	100
125647CC	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	\$32.09	\$28.89	\$25.99



50MIPS SX Microcontroller

Part No.	Parallax No.	Description	1	10	100
162931CC	SX28AC/DP	28-pin 50MIPS SX microcontroller	\$4.99	\$4.89	\$4.79

Voice Chips



Single-Chip Voice Record/Playback Devices

10 to 120 Second Durations (28-pin DIP)

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- On-chip automatic gain control (AGC)
- 100k record cycles (typical)
- Zero-power message storage – eliminates battery backup circuits
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Automatic power-down (push-button mode)
- Playback can be edge or level-activated
- 100-year message retention (typical)

Part No.	Product No.	Description	1	10	50
141671CC	ISD1110P	Voice record/playback (10 sec.)	\$5.99	\$5.75	\$5.49
107334CC	ISD1420P	Voice record/playback (20 sec.)	5.39	5.09	4.89
120643CC	ISD2560P	Voice record/playback (60 sec.)	9.19	8.59	7.79
120660CC	ISD2590P	Voice record/playback (90 sec.)	14.09	11.49	9.19
141655CC	ISD25120P	Voice record/playback (120 sec.)	9.99	9.49	8.79

PALs and GALs



Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
27748CC	SIG	N82S100	DIP-28	16 x 48 x 8 field-prog. logic array, 3-st.	\$14.95	\$13.49	\$12.15
28020CC	♦	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array	2.25	1.75	1.66
88399CC	♦	16V8-10*	DIP-20	10ns 64 x 32 AND array	2.59	2.35	2.10
37452CC	LAT	16V8-15*	DIP-20	15ns 64 x 32 AND array	1.39	1.25	1.12
37461CC	LAT	16V8-25*	DIP-20	25ns 64 x 32 AND array	1.25	1.09	.99
88292CC	LAT	20V8-10**	DIP-24	10ns 64 x 40 AND array	1.85	1.60	1.43
38658CC	LAT	20V8-15**	DIP-24	15ns 64 x 40 AND array	1.55	1.25	1.15
38666CC	♦	20V8-25**	DIP-24	25ns 64 x 40 AND array	1.69	1.49	1.39
235352CC	LAT	20VP8-25LJ	PLCC-28	25ns 64 x 40 AND array	3.79	2.89	2.39
123801CC	LAT	22V10-10	DIP-24	10ns 132 x 44 AND array	5.49	4.99	4.49
39159CC	LAT	22V10-15	DIP-24	15ns 132 x 44 AND array	4.49	3.95	3.55
39167CC	LAT	22V10-25	DIP-24	25ns 132 x 44 AND array	3.99	3.49	3.09

† SIG = Signetics; LAT = Lattice; ♦ = Jameco value offering

GALs are electrically erasable PLDs that can be used in place of numerous PALs

* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8

** Replaces PALs: 14H8, 14L8, 14P8, 16H6, 16L6, 16P6, 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8



We're adding 1,000's of new
semiconductors.

We'll Find Any IC!

Call us at 1-800-831-4242
to see if you can save up to 20%.

Anachip PEEL™ PLDs



Programmable Electrically
Erasable Logic (PEEL*) devices
from Anachip are drop-in

replacements for Cypress, Atmel,
Altera, Lattice and National PLDs, PALs and GALs*

PEELs offer the
convenience of simple and complex logic reprogrammability.



† I = Industrial Temp range: -40°C to +85°C; C = Commercial Temp. range: 0 to +70°C

Part No.	Product No.*	Pkg.	Speed	Icc	Inputs	I/O	Vcc	Temp.†	1	10	100
312987CC	16CV8J-25	PLCC-20	25ns	12mA	10	8	5	C	\$1.19	\$1.07	\$0.99
312995CC	16CV8P-25	DIP-20	25ns	12mA	10	8	5	C	1.19	.82	.74
313007CC	16CV8S-25	PLCC-20	25ns	12mA	10	8	5	C	1.59	1.08	.97
314780CC	18CV8J-7	PLCC-20	7ns	42mA	10	8	5	C	3.09	2.09	1.89
314675CC	18CV8J-10	PLCC-20	10ns	10mA	10	8	5	C	2.75	1.85	1.65
313761CC	18CV8J-15	PLCC-20	15ns	10mA	10	8	5	C	1.99	1.69	1.49
313058CC	18CV8J-25	PLCC-20	25ns	10mA	10	8	5	C	1.89	1.39	1.25
313795CC	18CV8J-15	PLCC-20	15ns	10mA	10	8	5	I	2.99	1.99	1.82
313066CC	18CV8J-25	PLCC-20	25ns	10mA	10	8	5	I	2.49	1.69	1.55
314801CC	18CV8P-7	DIP-20	7ns	42mA	10	8	5	C	3.05	2.05	1.85
314721CC	18CV8P-10	DIP-20	10ns	42mA	10	8	5	C	2.69	1.79	1.65
314739CC	18CV8P-15	DIP-20	15ns	42mA	10	8	5	I	3.19	2.15	1.95
314659CC	18CV8P-25	DIP-20	25ns	25mA	10	8	5	C	1.85	1.59	1.45
105953CC	18CV8P-25	DIP-20	25ns	25mA	10	8	5	C	2.25	1.99	1.79
313074CC	18CV8P-25	DIP-20	25ns	10mA	10	8	5	I	1.89	1.59	1.40
314747CC	18CV8S-10	SOIC-20	10ns	42mA	10	8	5	C	2.55	1.71	1.69
314077CC	18CV8S-15	SOIC-20	15ns	25mA	10	8	5	C	2.55	1.69	1.55
313242CC	18CV8S-25	SOIC-20	25ns	10mA	10	8	5	C	2.15	1.45	1.29
313251CC	18CV8S-25	SOIC-20	25ns	10mA	10	8	5	I	2.59	1.69	1.55
313349CC	18CV8T-25	TSSOP-20	25ns	10mA	10	8	5	C	2.45	1.65	1.49
313357CC	18CV8T-25	TSSOP-20	25ns	10mA	10	8	5	I	2.95	1.99	1.79
313365CC	18CV8ZJ-25	PLCC-20	25ns	10uA	10	8	5	C	3.79	2.55	2.29
313373CC	18CV8ZJ-25	PLCC-20	25ns	10uA	10	8	5	I	4.59	3.09	2.79
313381CC	18CV8ZP-25	DIP-20	25ns	10uA	10	8	5	C	3.65	2.45	2.19
313509CC	18CV8ZPI-25	DIP-20	25ns	10uA	10	8	5	I	4.39	2.95	2.59
313525CC	18CV8ZS-25	SOIC-20	25ns	10uA	10	8	5	C	3.75	2.49	2.29
313699CC	18LV8ZJ-25	PLCC-20	25ns	5uA	10	8	3	C	4.19	2.84	2.55
313701CC	18LV8ZP-25	DIP-20	25ns	5uA	10	8	3	C	3.99	2.69	2.39
313752CC	18LV8ZT-25	TSSOP-20	25ns	5uA	10	8	3	C	4.35	2.95	2.65
313015CC	18LV8ZJ-35	PLCC-20	35ns	5uA	10	8	3	I	4.99	3.39	3.05
313023CC	18LV8ZPI-35	DIP-20	35ns	5uA	10	8	3	I	4.79	3.19	2.89
313031CC	18LV8ZSI-35	SOIC-20	35ns	5uA	10	8	3	I	4.89	3.29	2.99
313040CC	18LV8ZTI-35	TSSOP-20	35ns	5uA	10	8	3	I	5.19	3.49	3.15
314122CC	18LV8ZPI-15	DIP-20	15ns	5uA	10	8	3	I	5.29	3.59	3.19
315336CC	22CV10AJ-7	PLCC-28	7ns	50mA	12	10	5	C	4.45	3.35	2.55
315184CC	22CV10AJ-10	PLCC-28	10ns	50mA	12	10	5	C	3.65	2.95	2.25
315109CC	22CV10AJ-15	PLCC-28	15ns	35mA	12	10	5	C	3.45	2.59	1.99
314860CC	22CV10AJ-25	PLCC-28	25ns	18mA	12	10	5	C	3.35	2.49	1.89
315361CC	22CV10AP-7	DIP-24	7ns	50mA	12	10	5	C	4.29	3.19	2.45
315205CC	22CV10AP-10	DIP-24	10ns	50mA	12	10	5	C	2.85	2.45	2.09
315213CC	22CV10AP-15	DIP-24	15ns	50mA	12	10	5	I	4.39	3.29	2.55
315125CC	22CV10AP-25	DIP-24	25ns	35mA	12	10	5	C	3.39	2.55	1.95
105996CC	22CV10AP-25	DIP-24	25ns	5uA	12	10	5	C	2.59	2.35	2.05
314886CC	22CV10API-25	DIP-24	25ns	18mA	12	10	5	I	2.85	2.45	1.99
314931CC	22CV10AZJ-25	PLCC-28	25ns	10uA	12	10	5	C	3.75	2.85	2.39
314940CC	22CV10AZJ-25	PLCC-28	25ns	10uA	12	10	5	I	6.85	5.19	3.95
314958CC	22CV10AZP-25	DIP-24	25ns	10uA	12	10	5	C	5.35	3.89	3.09
314991CC	22CV10AZT-25	TSSOP-24	25ns	10uA	12	10	5	C	5.79	4.39	3.35
315002CC	22CV10AZTI-25	TSSOP-24	25ns	10uA	12	10	5	I	6.95	5.29	4.05
315011CC	22LV10AZJ-25	PLCC-28	25ns	5uA	12	10	3	C	6.15	4.65	3.55
315029CC	22LV10AZP-25	DIP-24	25ns	5uA	12	10	3	C	5.89	4.45	3.39
315045CC	22LV10AZTI-25	TSSOP-24	25ns	5uA	12	10	3	C	6.29	4.79	3.65
316857CC	PA7540P-15	DIP-24	15ns	55mA	2	20	5	C	8.09	6.09	4.69
316902CC	PA7540J-15	PLCC-28	15ns	55mA	2	20	5	C	8.25	6.19	4.75
316996CC	PA7536P-15	DIP-28	15ns	45mA	14	12	5	C	7.05	5.29	4.05
317032CC	PA7536J-15	PLCC-28	15ns	45mA	14	12	5	C	7.29	5.49	4.19
317075CC	PA7572P-20	DIP-40	20ns	50mA	14	24	5	C	8.99	6.79	5.19
317104CC	PA7572J-20	PLCC-44	20ns	50mA	14	24	5	C	8.99	6.79	5.19

* For a device cross reference list, please go to our website and simply enter any of the above part numbers in our search engine.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74AC(T)XXX Advanced CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
AC(T)	DIP	SN74AC(T)XXXN	74AC(T)XXXN	74AC(T)XXXPC	MC74AC(T)XXXN	74AC(T)XXXB	74AC(T)XXXN	TC74AC(T)XXXP
	DIP	CD74AC(T)XXE	74AC(T)XXXN	74AC(T)XXXPC	MC74AC(T)XXXN	74AC(T)XXXB	74AC(T)XXXN	TC74AC(T)XXXP
	SOIC	SN74AC(T)XXXD/DW	74AC(T)XXXM	74AC(T)XXXSC	MC74AC(T)XXXD/DW	74AC(T)XXXM	74AC(T)XXXD	TC74AC(T)XXFXN/FW
	SOIC	CD74AC(T)XXXM	74AC(T)XXXM	74AC(T)XXXSC	MC74AC(T)XXXD/DW	74AC(T)XXXM	74AC(T)XXXD	TC74AC(T)XXFXN/FW

74AC Series – AC family offers CMOS inputs with CMOS outputs




Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!

Save More! Jameco Value Offering

Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Toshiba product.†

* Prepackaged: order in increments of 10 or 100

			<div><div></div><div>– Save 6-10%</div></div>				* Prepackaged: order in increments of 10 or 100					
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100
74AC00	SOIC-14	Quad 2-input NAND gate	263880CC	SN74AC00D	.....*	\$ .16	\$.156	263871CC	74AC00M	.....*	\$ .15	\$.14
74AC00	DIP-14	Quad 2-input NAND gate	256858CC	SN74AC00N	.....28	.26	.18	211801CC	74AC00N	.....25	.21	.16
74AC02	SOIC-14	Quad 2-input NOR gate	264090CC	SN74AC02M	.....26	.23	.17	264081CC	74AC02M	.....24	.21	.157
74AC02	DIP-14	Quad 2-input NOR gate	256891CC	CD74AC02E	.....29	.26	.24	211810CC	74AC02N	.....20	.17	.13
74AC04	SOIC-14	Hex inverter	264111CC	SN74AC04D	.....*	.17	.15	264102CC	74AC04M	.....*	.16	.13
74AC04	DIP-14	Hex inverter	256903CC	SN74AC04N	.....26	.25	.202	211828CC	74AC04N	.....24	.20	.185
74AC08	SOIC-14	Quad 2-input AND gate	264137CC	SN74AC08D	.....26	.23	.18	264129CC	74AC08M	.....24	.21	.157
74AC08	DIP-14	Quad 2-input AND gate	256911CC	SN74AC08N	.....41	.35	.26	211836CC	74AC08N	.....20	.17	.13
74AC10	SOIC-14	Triple 3-input NAND gate	264153CC	SN74AC10D	.....26	.23	.175	264145CC	74AC10M	.....24	.21	.157
74AC10	DIP-14	Triple 3-input NAND gate	256920CC	SN74AC10N	.....41	.35	.25	238887CC	74AC10N	.....25	.24	.20
74AC11	SOIC-14	Triple 3-input AND gate	264170CC	SN74AC11D	.....32	.26	.18	264161CC	74AC11M	.....30	.23	.17
74AC11	DIP-14	Triple 3-input AND gate	256938CC	SN74AC11N	.....32	.26	.18	238895CC	74AC11N	.....30	.24	.17
74AC14	SOIC-14	Hex inverter with Schmitt trigger input	264209CC	SN74AC14D	.....20	.17	.15	264196CC	74AC14M	.....*	.149	.13
74AC14	DIP-14	Hex inverter with Schmitt trigger input	261366CC	SN74AC14N	.....23	.21	.20	211844CC	74AC14N	.....21	.18	.13
74AC20	SOIC-14	4-input NAND gate	264233CC	CD74AC20M	.....26	.23	.18	264225CC	74AC20M	.....24	.21	.157
74AC20	DIP-14	4-input NAND gate	261382CC	CD74AC20N	.....39	.32	.22	238836CC	74AC20N	.....35	.29	.19
74AC32	SOIC-14	Quad 2-input OR gate	264268CC	SN74AC32D	.....26	.23	.18	264241CC	74AC32M	.....24	.21	.16
74AC32	DIP-14	Quad 2-input OR gate	261391CC	SN74AC32N	.....41	.34	.25	211852CC	74AC32N	.....21	.18	.143
74AC74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	264284CC	SN74AC74D	.....31	.26	.193	264276CC	74AC74M	.....28	.24	.17
74AC74	DIP-14	Dual D-type pos. edge-triggered flip-flop	261403CC	SN74AC74N	.....40	.34	.24	211861CC	74AC74N	.....27	.24	.21
74AC86	SOIC-14	Quad 2-input exclusive OR gate	264305CC	SN74AC86D	.....20	.17	.14	264292CC	74AC86M	.....*	.149	.13
74AC86	DIP-14	Quad 2-input exclusive OR gate	261454CC	SN74AC86N	.....32	.26	.18	211879CC	74AC86N	.....29	.25	.18
74AC109	SOIC-16	Dual JK positive edge triggered flip-flop						264313CC	74AC109M	.....45	.39	.29
74AC109	DIP-16	Dual JK positive edge triggered flip-flop	261462CC	CD74AC109E	.....47	.40	.29	238908CC	74AC109N	.....43	.37	.269
74AC125	SOIC-16	Quad buffer with 3-state outputs						264321CC	74AC125M	.....48	.36	.27
74AC125	DIP-14	Quad buffer with 3-state outputs						238916CC	74AC125N	.....38	.36	.28
74AC138	SOIC-16	1 of 8 decoder/demultiplexer	264364CC	CD74AC138M	.....41	.34	.23	264348CC	74AC138M	.....38	.31	.21
74AC138	DIP-16	1 of 8 decoder/demultiplexer	261471CC	CD74AC138E	.....46	.35	.27	211887CC	74AC138N	.....42	.32	.23
74AC139	SOIC-16	Dual 1 of 4 decoder/demultiplexer	264508CC	CD74AC139M	.....56	.43	.32	264495CC	74AC139M	.....51	.39	.29
74AC139	DIP-16	Dual 1 of 4 decoder/demultiplexer	261500CC	CD74AC139E	.....49	.41	.29	238730CC	74AC139N	.....44	.37	.27
74AC151	SOIC-16	Quad buffer with 3-state outputs						264516CC	74AC151M	.....39	.32	.24
74AC151	DIP-16	Quad buffer with 3-state outputs	261526CC	CD74AC151E	.....46	.35	.26	238748CC	74AC151N	.....42	.32	.24
74AC153	SOIC-16	Dual 4-input multiplexer	264532CC	CD74AC153M	.....42	.36	.26	264524CC	74AC153M	.....39	.32	.24
74AC153	DIP-16	Dual 4-input multiplexer	261534CC	CD74AC153E	.....49	.41	.29	238756CC	74AC153N	.....44	.37	.27
74AC157	SOIC-16	Quad 2-input multiplexer	264559CC	CD74AC157M	.....41	.38	.34	264541CC	74AC157M	.....38	.32	.24
74AC157	DIP-16	Quad 2-input multiplexer	261542CC	CD74AC157E	.....47	.36	.27	238764CC	74AC157N	.....43	.32	.24
74AC161	SOIC-16	Synchronous presettable binary counter	264575CC	CD74AC161M	.....41	.37	.33	264567CC	74AC161M	.....31	.27	.24
74AC161	DIP-16	Synchronous presettable binary counter	261551CC	CD74AC161E	.....46	.35	.26	238772CC	74AC161N	.....42	.32	.24
74AC163	SOIC-16	Binary counter	264591CC	CD74AC163M	.....49	.41	.36	264583CC	74AC163M	.....44	.37	.27
74AC163	DIP-16	Binary counter	261585CC	CD74AC163E	.....50	.38	.29	238781CC	74AC163N	.....46	.35	.27
74AC169	SOIC-16	4-stage synchronous bidirectional counter						265818CC	74AC169M	.....68	.57	.47
74AC169	DIP-16	4-stage synchronous bidirectional counter						238799CC	74AC169N	.....93	.84	.77
74AC174	SOIC-16	HEX D-type flip-flop w/ master reset	264858CC	CD74AC174M	.....46	.35	.27	264840CC	74AC174M	.....42	.32	.24
74AC174	DIP-16	HEX D-type flip-flop w/ master reset	261593CC	CD74AC174E	.....50	.38	.29	238801CC	74AC174N	.....46	.35	.27
74AC175	SOIC-16	Quad D-type flip-flop	264874CC	CD74AC175M	.....46	.35	.26	264866CC	74AC175M	.....42	.32	.24
74AC175	DIP-16	Quad D-type flip-flop						238810CC	74AC175N	.....51	.42	.32
74AC191	SOIC-16	Up/down counter w/ preset & ripple clock						264903CC	74AC191M	.....1.15	.98	.80
74AC191	DIP-16	Up/down counter w/ preset & ripple clock						238828CC	74AC191N	.....1.25	1.00	.76
74AC240	SOIC-20	Octal buffer/line driver w/ 3-state outputs	264971CC	SN74AC240DW	.....45	.36	.28	264938CC	74AC240M	.....41	.33	.25
74AC240	DIP-20	Octal buffer/line driver w/ 3-state outputs	261614CC	SN74AC240N	.....32	.264	.239	211895CC	74AC240N	.....30	.241	.218
74AC241	SOIC-20	Octal buffer/line driver w/ 3-state outputs	265543CC	SN74AC241DW	.....45	.36	.28	265535CC	74AC241M	.....41	.33	.25

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74AC Series (Continued) – AC family offers CMOS inputs with CMOS outputs




Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!

							Texas Instruments – Save 6-10%					you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Toshiba product.				
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100				
74AC241	DIP-20	Octal buffer/line driver w/ 3-state outputs	261729CC	SN74AC241N	.45	.364	\$.276	238844CC	74AC241N	\$.41	\$.33	\$.25				
74AC244	SOIC-20	Octal buffer/line driv. w/ 3-st. outputs	265560CC	SN74AC244DW	.45	.36	.28	265551CC	74AC244M	.41	.33	.25				
74AC244	DIP-20	Octal buffer/line driv. w/ 3-st. outputs	261796CC	SN74AC244N	.32	.26	.23	211908CC	74AC244N	.29	.25	.18				
74AC245	SOIC-20	Octal bidirectional trans. w/ 3-state I/O	265594CC	SN74AC245DW	.45	.36	.28	265586CC	74AC245M	.41	.33	.25				
74AC245	DIP-20	Octal bidirectional trans. w/ 3-state I/O	261817CC	SN74AC245N	.40	.35	.33	211916CC	74AC245N	.36	.30	.23				
74AC251	SOIC-16	8-input multiplexer w/ 3-state output	265615CC	CD74AC251M	.54	.47	.39	265607CC	74AC251M	.49	.43	.35				
74AC251	DIP-16	8-input multiplexer w/ 3-state output						238852CC	74AC251N	.41	.38	.34				
74AC253	SOIC-16	Dual 4-input multiplexer w/ 3-state outputs	265640CC	CD74AC253M	.49	.37	.28	265623CC	74AC253M	.44	.34	.25				
74AC253	DIP-16	Dual 4-input multiplexer w/ 3-state outputs						238861CC	74AC253N	.42	.32	.24				
74AC257	SOIC-16	Quad 2-input multiplexer	265666CC	CD74AC257M	.41	.37	.28	265658CC	74AC257M	.38	.32	.25				
74AC257	DIP-16	Quad 2-input multiplexer	261956CC	CD74AC257E	.41	.38	.36	238879CC	74AC257N	.38	.35	.33				
74AC273	SOIC-20	Octal D-type flip-flop	265682CC	CD74AC273M	.56	.53	.46	265674CC	74AC273M	.51	.48	.45				
74AC273	DIP-20	Octal D-type flip-flop	261964CC	CD74AC273E	.44	.38	.37	211924CC	74AC273N	.40	.34	.26				
74AC299	SOIC-20	8-input univ. shift/storage reg. w/com. parallel I/O pins						265826CC	74AC299M	1.79	1.45	1.09				
74AC299	DIP-20	8-input univ. shift/storage reg. w/com. parallel I/O pins						238924CC	74AC299N	1.35	1.25	1.05				
74AC373	SOIC-20	Octal transparent latch w/ 3-state outputs	265703CC	SN74AC373DW	.56	.52	.49	265691CC	74AC373M	.51	.48	.45				
74AC373	DIP-20	Octal transparent latch w/ 3-state outputs	261981CC	SN74AC373N	.54	.38	.32	211932CC	74AC373N	.40	.36	.32				
74AC374	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	265720CC	SN74AC374DW	.30	.29	.27	265711CC	74AC374M	.30	.29	.25				
74AC374	DIP-20	Octal D-type flip-flop w/ 3-state outputs	262035CC	SN74AC374N	.65	.59	.53	211941CC	74AC374N	.51	.43	.323				
74AC377	SOIC-20	Octal D-type flip flop w/ clock enable						265851CC	74AC377M	.66	.61	.54				
74AC377	DIP-20	Octal D-type flip flop w/ clock enable						242763CC	74AC377N	.71	.60	.46				
74AC399	DIP-16	Quad 2-port register						238941CC	74AC399N	1.85	1.69	1.52				
74AC521	SOIC-20	8-bit identity comparator						265869CC	74AC521M	.96	.88	.76				
74AC521	DIP-20	8-bit identity comparator						238959CC	74AC521N	.98	.91	.77				
74AC540	SOIC-20	Octal buffer/line driver w/ 3-state outputs	265746CC	CD74AC540M	.83	.74	.60	265738CC	74AC540M	.75	.67	.55				
74AC540	DIP-20	Octal buffer/line driver w/ 3-state outputs						238967CC	74AC540N	.54	.49	.46				
74AC541	SOIC-20	Octal buffer/line driver w/ 3-state outputs	265762CC	CD74AC541M	.83	.74	.59	265754CC	74AC541M	.75	.67	.55				
74AC541	DIP-20	Octal buffer/line driver w/ 3-state outputs	262051CC	CD74AC541E	.83	.66	.50	238975CC	74AC541N	.59	.52	.45				
74AC573	SOIC-20	Octal latch w/ 3-state outputs	265789CC	SN74AC573DW	.45	.36	.28	265771CC	74AC573M	.41	.33	.25				
74AC573	DIP-20	Octal latch w/ 3-state outputs	262086CC	SN74AC573N	.41	.36	.34	238983CC	74AC573N	.37	.33	.31				
74AC574	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	265800CC	SN74AC574DW	.45	.36	.28	265797CC	74AC574M	.41	.33	.25				
74AC574	DIP-20	Octal D-type flip-flop w/ 3-state outputs	262094CC	SN74AC574N	.63	.56	.49	238991CC	74AC574N	.57	.50	.45				

74ACT Series – ACT family offers TTL inputs with CMOS outputs



							* Prepackaged: order in increments of 10 or 100					
<div> – Save 6-10%</div>							Save More! Jameco Value Offering					
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100
74ACT00	SOIC-14	Quad 2-input NAND gate	265885CC	SN74ACT00D	\$.20	\$.19	\$.16	265877CC	74ACT00M	*	\$.17	\$.14
74ACT00	DIP-14	Quad 2-input NAND gate	262326CC	SN74ACT00N .....	.28	.24	.20	211959CC	74ACT00N .....	.25	.21	.156
74ACT02	SOIC-14	Quad 2-input NOR gate	265922CC	CD74ACT02M .....	.22	.20	.16	265914CC	74ACT02M .....	.20	.18	.14
74ACT02	DIP-14	Quad 2-input NOR gate	262334CC	CD74ACT02E .....	.31	.29	.27	211967CC	74ACT02N .....	.28	.24	.18
74ACT04	SOIC-14	Hex inverter	265949CC	SN74ACT04D .....	.22	.20	.16	265957CC	74ACT04M .....	.20	.18	.14
74ACT04	DIP-14	Hex inverter	262342CC	SN74ACT04N .....	.28	.22	.18	211975CC	74ACT04N .....	.25	.21	.16
74ACT08	SOIC-14	Quad 2-input AND gate	266141CC	SN74ACT08D .....	.20	.178	.15	266159CC	74ACT08M	*	.17	.13
74ACT08	DIP-14	Quad 2-input AND gate	262351CC	SN74ACT08N .....	.31	.26	.18	211983CC	74ACT08N .....	.20	.16	.14
74ACT10	SOIC-14	Triple 3-input NAND gate	266271CC	SN74ACT10D .....	.29	.26	.20	266263CC	74ACT10M .....	.26	.23	.19
74ACT10	DIP-14	Triple 3-input NAND gate	262369CC	SN74ACT10N .....	.22	.20	.16	239046CC	74ACT10N .....	.20	.18	.14
74ACT14	SOIC-14	Hex inverter with Schmitt trigger input	266301CC	SN74ACT14D .....	.22	.18	.16	266298CC	74ACT14M .....	.20	.18	.14
74ACT14	DIP-14	Hex inverter with Schmitt trigger input	262377CC	SN74ACT14N .....	.25	.20	.16	211991CC	74ACT14N .....	.23	.20	.15
74ACT32	SOIC-14	Quad 2-input OR gate	266378CC	SN74ACT32D .....	.22	.20	.16	266360CC	74ACT32M .....	.20	.18	.14
74ACT32	DIP-14	Quad 2-input OR gate	262465CC	SN74ACT32N .....	.31	.26	.18	212003CC	74ACT32N .....	.28	.24	.17
74ACT74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	266431CC	SN74ACT74D .....	.30	.26	.19	266423CC	74ACT74M .....	.27	.23	.176
74ACT74	DIP-14	Dual D-type pos. edge-triggered flip-flop	262473CC	SN74ACT74N .....	.28	.24	.20	212011CC	74ACT74N .....	.25	.21	.16
74ACT86	SOIC-14	Quad 2-input exclusive OR gate	266458CC	SN74ACT86D .....	.31	.29	.20	266440CC	74ACT86M .....	.28	.27	.19
74ACT86	DIP-14	Quad 2-input exclusive OR gate	262481CC	SN74ACT86N .....	.22	.20	.16	212020CC	74ACT86N .....	.20	.17	.128
74ACT125	SOIC-14	Quad buffer with 3-state outputs						266466CC	74ACT125M .....	.86	.73	.59
74ACT125	DIP-14	Quad buffer with 3-state outputs						239003CC	74ACT125N .....	.32	.29	.24

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74ACT Series (Continued) – ACT family offers TTL inputs with CMOS outputs



Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!

TEXAS INSTRUMENTS – Save 6-10%

Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100
74ACT138	SOIC-16	1 of 8 decoder/demultiplexer	266482CC	CD74ACT138M	.35	.32	.24
74ACT138	DIP-16	1 of 8 decoder/demultiplexer	262490CC	CD74ACT138E	.35	.30	.21
74ACT139	SOIC-16	Dual 1 of 4 decoder/demultiplexer	266503CC	CD74ACT139M	.41	.33	.25
74ACT139	DIP-16	Dual 1 of 4 decoder/demultiplexer	262502CC	CD74ACT139E	.41	.33	.23
74ACT151	SOIC-16	8-input multiplexer					
74ACT151	DIP-16	8-input multiplexer					
74ACT157	SOIC-16	Quad 2-input multiplexer	266538CC	CD74ACT157M	.32	.28	.25
74ACT157	DIP-16	Quad 2-input multiplexer	262529CC	CD74ACT157E	.43	.33	.25
74ACT161	SOIC-16	Synchronous binary counter	266554CC	CD74ACT161M	.69	.63	.51
74ACT161	DIP-16	Synchronous binary counter	262676CC	CD74ACT161E	.43	.35	.29
74ACT163	SOIC-16	Synchronous presettable binary counter	266571CC	CD74ACT163M	.43	.32	.25
74ACT163	DIP-16	Synchronous presettable binary counter	262684CC	CD74ACT163E	.54	.41	.31
74ACT174	SOIC-16	HEX D-type flip-flop with master reset	266634CC	CD74ACT174M	.41	.38	.36
74ACT174	DIP-16	HEX D-type flip-flop with master reset	262692CC	CD74ACT174E	.53	.46	.34
74ACT175	SOIC-16	Quad D-type flip-flop	266685CC	CD74ACT175M	.60	.54	.43
74ACT175	DIP-16	Quad D-type flip-flop	262799CC	CD74ACT175E	.60	.54	.43
74ACT240	SOIC-20	Octal buffer/line driv. w/ 3-st. outputs	266749CC	CD74ACT240DW	.50	.41	.31
74ACT240	DIP-20	Octal buffer/line driv. w/ 3-st. outputs	262828CC	CD74ACT240N	.32	.28	.24
74ACT241	SOIC-20	Octal buffer/line driver with 3-state outputs	266773CC	SN74ACT241DW	.45	.36	.28
74ACT241	DIP-20	Octal buffer/line driver with 3-state outputs	263038CC	SN74ACT241N	.45	.36	.28
74ACT244	SOIC-20	Octal buffer/line driv. w/ 3-st. outputs	266909CC	SN74ACT244DW	.35	.30	.26
74ACT244	DIP-20	Octal buffer/line driv. w/ 3-st. outputs	263046CC	SN74ACT244N	.45	.36	.28
74ACT245	SOIC-20	Octal bidirectional trans. w/ 3-state I/O	266925CC	SN74ACT245DW	.44	.36	.28
74ACT245	DIP-20	Octal bidirectional trans. w/ 3-state I/O	263062CC	SN74ACT245N	.41	.37	.35
74ACT251	SOIC-16	8-input multiplexer					
74ACT251	DIP-16	8-input multiplexer					
74ACT257	SOIC-16	Quad 2-input multiplexer with 3-st. outputs	266968CC	CD74ACT257M	.67	.61	.55
74ACT257	DIP-16	Quad 2-input multiplexer with 3-st. outputs	263097CC	CD74ACT257E	.40	.31	.27
74ACT273	SOIC-20	Octal D-type flip-flop	266984CC	CD74ACT273M	.50	.41	.31
74ACT273	DIP-20	Octal D-type flip-flop	263100CC	CD74ACT273E	.41	.36	.28
74ACT373	SOIC-20	Octal transparent latch w/ 3-state outputs	267004CC	SN74ACT373DW	.44	.36	.28
74ACT373	DIP-20	Octal transparent latch w/ 3-state outputs	263177CC	SN74ACT373N	.45	.36	.28
74ACT374	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	267021CC	SN74ACT374DW	.45	.36	.28
74ACT374	DIP-20	Octal D-type flip-flop w/ 3-state outputs	263193CC	SN74ACT374N	.44	.36	.28
74ACT521	SOIC-20	8-bit identity comparator					
74ACT521	DIP-20	8-bit identity comparator					
74ACT533	SOIC-20	Octal transparent latch w/ 3-state outputs	267080CC	SN74ACT533DW	.49	.37	.28
74ACT533	DIP-20	Octal transparent latch w/ 3-state outputs	263425CC	SN74ACT533N	.57	.52	.39
74ACT541	SOIC-20	Octal buffer/line driver with 3-state outputs	267178CC	CD74ACT541M	.43	.38	.30
74ACT541	DIP-20	Octal buffer/line driver with 3-state outputs	263441CC	CD74ACT541E	.45	.36	.28
74ACT573	SOIC-20	Octal latch with 3-state outputs	267282CC	SN74ACT573DW	.45	.36	.27
74ACT573	DIP-20	Octal latch with 3-state outputs	263468CC	SN74ACT573	.63	.59	.55
74ACT574	SOIC-20	Octal D-type flip-flop	267346CC	SN74ACT574DW	.45	.36	.28
74ACT574	DIP-20	Octal D-type flip-flop	263476CC	SN74ACT574N	.63	.55	.45
74ACT715	SOIC-20	Programmable video sync. generator					
74ACT715	DIP-20	Programmable video sync. generator					

Save More! Jameco Value Offering

Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Toshiba product.†

Part No.	Cross Ref.	1	10	100
266474CC	74ACT138M	.32	.29	.22
212038CC	74ACT138N	.23	.20	.15
266491CC	74ACT139M	.37	.30	.23
239011CC	74ACT139N	.38	.32	.24
266511CC	74ACT151M	.39	.30	.23
239020CC	74ACT151N	.51	.39	.29
266520CC	74ACT157M	.30	.27	.23
239038CC	74ACT157N	.39	.30	.23
266546CC	74ACT161M	.63	.57	.48
239071CC	74ACT161N	.39	.32	.27
266562CC	74ACT163M	.39	.30	.23
239062CC	74ACT163N	.49	.37	.29
266600CC	74ACT174M	.38	.35	.33
239054CC	74ACT174N	.48	.42	.31
266677CC	74ACT175M	.55	.49	.40
239089CC	74ACT175N	.55	.49	.40
266731CC	74ACT240M	.46	.37	.29
212046CC	74ACT240N	.30	.26	.19
266765CC	74ACT241M	.41	.33	.25
239097CC	74ACT241N	.41	.33	.25
266896CC	74ACT244M	.32	.27	.24
212054CC	74ACT244N	.41	.33	.25
266917CC	74ACT245M	.40	.33	.25
212062CC	74ACT245N	.38	.33	.25
266933CC	74ACT251M	.46	.35	.26
239100CC	74ACT251N	.46	.35	.27
266941CC	74ACT257M	.38	.35	.33
239126CC	74ACT257N	.36	.31	.23
266976CC	74ACT273M	.46	.37	.29
212071CC	74ACT273N	.37	.31	.23
266992CC	74ACT373M	.40	.33	.25
212089CC	74ACT373N	.41	.33	.25
267012CC	74ACT374M	.41	.33	.25
212097CC	74ACT374N	.40	.33	.25
267055CC	74ACT521M	.44	.36	.30
235230CC	74ACT521N	.79	.60	.45
267071CC	74ACT533M	.44	.34	.26
235248CC	74ACT533N	.52	.47	.43
267151CC	74ACT541M	.39	.35	.29
235264CC	74ACT541N	.41	.33	.25
267274CC	74ACT573M	.41	.33	.25
235272CC	74ACT573N	.57	.54	.50
267338CC	74ACT574M	.41	.33	.25
235281CC	74ACT574N	.57	.48	.36
267371CC	74ACT715M	9.45	8.49	7.65
235299CC	74ACT715N	8.69	8.24	7.49

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

TTL Logic Data Book

Texas Instruments

Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages, 1988)

- Size: 6.0" x 8.5"
- Weight: 2.6 lbs.



Part No.	Description	1	10
88225CC	TTL Logic Data Book	\$34.95	\$31.49

Side-by-Side Savings Add Up!

Have you ever tried to search for discrete logic in catalogs? Sometimes they're over-priced, and more often, it's difficult to find the low-cost manufacturer. TI on one page, National Semi on another... what's an engineer to do?

Fortunately, Jameco has made the process a lot easier. Now you can find Texas Instruments and money-saving

alternatives on the same page; each priced side-by-side. Look at Jameco's selection of 74AC, ACT, HC, HCT, AHC, AHCT, ABT, F and LS devices today. TI products are priced 6-10% off market price, and the alternative Jameco Value Offerings are up to 20% off.

Practical Practices
Money Saving Tips for the Engineer



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74AHC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba	Samsung
AHC(T)	DIP	SN74AHC(T)XXXN	74AHC(T)XXXN	MM74VHC(T)XXXN	—	—	—	—	KS74AHC(T)XXXN
	SOIC	SN74AHC(T)XXXD/DW	74AHC(T)XXXM	MM74VHC(T)XXXM/MM	MC74VHC(T)XXXD	M74VHC(T)XXXM	74AHC(T)XXXD	TC74VHC(T)XXXFN/FW	—

74AHC Series – AHC family offers CMOS inputs with CMOS outputs

DIP SOIC 

Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to the right, to save up to 20%!

Save More! Jameco Value Offering


Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, Samsung, ST and/or Toshiba product.†

Texas Instruments – Save 6-10%								National, On Semi, Philips, Samsung, ST and/or Toshiba product.†					
								AHC(T) = VHC(T)					
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100	
74AHC00	SOIC-14	Quad 2-input positive NAND gate	289641CC	SN74AHC00D	\$.32	\$.27	\$.19	289650CC	74AHC00M	\$.30	\$.253	\$.176	
74AHC00	DIP-14	Quad 2-input positive NAND gate	287726CC	SN74AHC00N .....	.36	.30	.21	214092CC	74AHC00N .....	.32	.27	.19
74AHC02	SOIC-14	Quad 2-input positive NOR gate	289668CC	SN74AHC02D .....	.32	.31	.22	289676CC	74AHC02M .....	.30	.291	.202
74AHC02	DIP-14	Quad 2-input positive NOR gate	287742CC	SN74AHC02N .....	.36	.30	.21	214105CC	74AHC02N .....	.32	.27	.19
74AHC04	SOIC-14	Hex inverter	289721CC	SN74AHC04D .....	.32	.31	.22	289748CC	74AHC04M .....	.30	.291	.202
74AHC04	DIP-14	Hex inverter	287751CC	SN74AHC04N .....	.36	.30	.21	214113CC	74AHC04N .....	.32	.27	.19
74AHC08	SOIC-14	Quad 2-input positive AND gate	289764CC	SN74AHC08D .....	.40	.32	.22	289772CC	74AHC08M .....	.36	.291	.202
74AHC08	DIP-14	Quad 2-input positive AND gate	287777CC	SN74AHC08N .....	.36	.30	.21	214121CC	74AHC08N .....	.32	.27	.19
74AHC14	SOIC-14	Hex inverter with Schmitt trigger input	289799CC	SN74AHC14D .....	.29	.25	.18	289801CC	74AHC14M .....	.26	.224	.159
74AHC14	DIP-14	Hex inverter with Schmitt trigger input	288171CC	SN74AHC14N .....	.35	.291	.202	214130CC	74AHC14N .....	.32	.29	.19
74AHC32	SOIC-14	Quad 2-input positive OR gate	289932CC	SN74AHC32D .....	.39	.319	.221	289941CC	74AHC32M .....	.35	.291	.202
74AHC32	DIP-14	Quad 2-input positive OR gate	288198CC	SN74AHC32N .....	.41	.33	.23	214148CC	74AHC32N .....	.36	.29	.20
74AHC74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	289959CC	SN74AHC74D .....	.40	.32	.22	289967CC	74AHC74M .....	.36	.291	.202
74AHC74	DIP-14	Dual D-type pos. edge-triggered flip-flop	288201CC	SN74AHC74N .....	.30	.29	.21	214156CC	74AHC74N .....	.26	.22	.165
74AHC86	SOIC-14	Quad 2-input exclusive OR gate	289983CC	SN74AHC86D .....	.22	.173	.156	289991CC	74AHC86M .....	.20	.158	.143
74AHC86	DIP-14	Quad 2-input exclusive OR gate	288219CC	SN74AHC86N .....	.44	.355	.248	214164CC	74AHC86N .....	.32	.27	.19
74AHC138	SOIC-16	3-line to 8-line decoders/demultiplexers	290036CC	SN74AHC138D .....	.42	.373	.304	290044CC	74AHC138M .....	.39	.34	.277
74AHC138	DIP-16	3-line to 8-line decoders/demultiplexers	288286CC	SN74AHC138N .....	.46	.37	.26	243213CC	74AHC138N .....	.40	.324	.224
74AHC139	SOIC-16	Dual 2-line to 4-line decoders/demultiplexers	290061CC	SN74AHC139D .....	.48	.38	.30	290079CC	74AHC139M .....	.44	.332	.277
74AHC139	DIP-16	Dual 2-line to 4-line decoders/demultiplexers	288294CC	SN74AHC139N .....	.46	.37	.26	243221CC	74AHC139N .....	.40	.324	.227
74AHC157	DIP-16	2 to 1 data selector/multiplexer	288382CC	SN74AHC157N .....	.60	.45	.34	243230CC	74AHC157N .....	.53	.40	.31
74AHC240	SOIC-20	Octal buffer/driver w/ 3-st. outputs	290108CC	SN74AHC240DW .....	.50	.38	.29	290116CC	74AHC240M .....	.46	.349	.269
74AHC240	DIP-20	Octal buffer/driver w/ 3-st. outputs	288315CC	SN74AHC240N .....	.29	.256	.248	214172CC	74AHC240N .....	.31	.28	.26
74AHC244	SOIC-20	Octal buffer/driver w/ 3-st. outputs	290175CC	SN74AHC244DW .....	.41	.33	.25	290183CC	74AHC244M .....	.37	.299	.227
74AHC244	DIP-20	Octal buffer/driver w/ 3-st. outputs	288323CC	SN74AHC244N .....	.36	.291	.221	214181CC	74AHC244N .....	.33	.27	.20
74AHC245	SOIC-20	Octal bus transceiver w/ 3-state outputs	290191CC	SN74AHC245DW .....	.43	.33	.25	290204CC	74AHC245M .....	.39	.299	.227
74AHC245	DIP-20	Octal bus transceiver w/ 3-state outputs	288331CC	SN74AHC245N .....	.37	.30	.23	214199CC	74AHC245N .....	.33	.27	.20
74AHC373	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	290212CC	SN74AHC373DW .....	.43	.33	.25	290239CC	74AHC373M .....	.39	.299	.227
74AHC373	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	288340CC	SN74AHC373N .....	.30	.24	.22	214201CC	74AHC373N .....	.26	.24	.19
74AHC374	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	290247CC	SN74AHC374DW .....	.29	.237	.212	290255CC	74AHC374M .....	.26	.216	.193
74AHC374	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288358CC	SN74AHC374N .....	.30	.24	.22	214210CC	74AHC374N .....	.26	.24	.227
74AHC541	SOIC-20	Octal buffer/driver w/ 3-state outputs	290271CC	SN74AHC541DW .....	.50	.38	.29	290280CC	74AHC541M .....	.46	.349	.265
74AHC541	DIP-20	Octal buffer/driver w/ 3-state outputs	288366CC	SN74AHC541N .....	.36	.291	.239	214228CC	74AHC541N .....	.33	.27	.20
74AHC574	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	290298CC	SN74AHC574DW .....	.29	.237	.213	290319CC	74AHC574M .....	.26	.216	.193
74AHC574	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288374CC	SN74AHC574N .....	.37	.30	.23	214236CC	74AHC574N .....	.33	.27	.20

74AHCT Series – AHCT family offers TTL inputs with CMOS outputs

AHC(T) = VHC(T)

DIP SOIC 

			 – Save 6-10%				Save More! Jameco Value Offering					
							* Prepackaged: order in increments of 10 or 100					
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100
74HCT00	SOIC-14	Quad 2-input positive NAND gate	289051CC	SN74AHCT00D	\$.24	\$.20	\$.16	289060CC	74AHCT00M	\$.22	\$.183	\$.143
74HCT00	DIP-14	Quad 2-input positive NAND gate	288454CC	SN74AHCT00N .....	.23	.15	.13	43844CC	74AHCT00N .....	.21	.15	.10
74HCT02	DIP-14	Quad 2-input positive NOR gate	288489CC	SN74AHCT02N .....	.36	.30	.21	43852CC	74AHCT02N .....	.32	.27	.20
74HCT04	SOIC-14	Hex inverter	289086CC	SN74AHCT04D .....	.21	.16	.14	289094CC	74AHCT04M	*	.149	.126
74HCT04	DIP-14	Hex inverter	288497CC	SN74AHCT04N .....	.34	.30	.21	43861CC	74AHCT04N .....	.30	.266	.185
74HCT08	SOIC-14	Quad 2-input positive AND gate	289140CC	SN74AHCT08D .....	.21	.16	.15	289158CC	74AHCT08M	*	.149	.134
74HCT08	DIP-14	Quad 2-input positive AND gate	288569CC	SN74AHCT08N .....	.32	.291	.202	63431CC	74AHCT08N .....	.30	.22	.19
74HCT14	SOIC-14	Hex inverter with Schmitt trigger input	289166CC	SN74AHCT14D	*	.146	.129	289174CC	74AHCT14M	*	.133	.118
74HCT14	DIP-14	Hex inverter with Schmitt trigger input	288577CC	SN74AHCT14N .....	.35	.291	.202	63458CC	74AHCT14N .....	.32	.27	.19
74HCT74	SOIC-14	Dual D-type pos. edge-triggered flip-flop	289262CC	SN74AHCT74D .....	.29	.25	.18	289254CC	74AHCT74M .....	.26	.224	.159
74HCT74	DIP-14	Dual D-type pos. edge-triggered flip-flop	288649CC	SN74AHCT74N .....	.35	.291	.202	43924CC	74AHCT74N .....	.32	.27	.20
74HCT86	SOIC-14	Quad 2-input exclusive OR gate	289289CC	SN74AHCT86D .....	.23	.191	.166	289297CC	74AHCT86M .....	.21	.174	.151
74HCT86	DIP-14	Quad 2-input exclusive OR gate	288657CC	SN74AHCT86N .....	.23	.19	.17	43932CC	74AHCT86N .....	.21	.18	.13

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74AHCT Series (Continued) – AHCT family offers TTL inputs with CMOS outputs



Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!



– Save 6-10%

Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100
74AHCT138	SOIC-16	3-line to 8-line decoders/demultiplexers	289318CC	SN74AHCT138D	\$.50	\$.40	\$.30
74AHCT138	DIP-16	3-line to 8-line decoders/demultiplexers	288673CC	SN74AHCT138N .....	.40	.33	.25
74AHCT139	SOIC-16	Dual 2-line to 4-line decoders/demultiplexers	289342CC	SN74AHCT139D .....	.48	.38	.30
74AHCT139	DIP-16	Dual 2-line to 4-line decoders/demultiplexers	288711CC	SN74AHCT139N .....	.29	.28	.20
74AHCT240	SOIC-20	Octal buffer/driver w/ 3-st. outputs	289385CC	SN74AHCT240DW .....	.45	.38	.29
74AHCT240	DIP-20	Octal buffer/driver w/ 3-st. outputs	288737CC	SN74AHCT240N .....	.29	.259	.248
74AHCT244	SOIC-20	Octal buffer/driver w/ 3-st. outputs	289449CC	SN74AHCT244DW .....	.43	.33	.25
74AHCT244	DIP-20	Octal buffer/driver w/ 3-st. outputs	288868CC	SN74AHCT244N .....	.29	.24	.21
74AHCT245	SOIC-20	Octal bus transceiver w/ 3-state outputs	289490CC	SN74AHCT245DW .....	.43	.33	.25
74AHCT245	DIP-20	Octal bus transceiver w/ 3-state outputs	288884CC	SN74AHCT245N .....	.36	.23	.22
74AHCT373	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	289502CC	SN74AHCT373DW .....	.43	.33	.25
74AHCT373	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	288892CC	SN74AHCT373N .....	.29	.237	.212
74AHCT374	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	289561CC	SN74AHCT374DW .....	.29	.237	.212
74AHCT374	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288913CC	SN74AHCT374N .....	.29	.237	.212
74AHCT574	SOIC-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	289617CC	SN74AHCT574DW .....	.43	.33	.25
74AHCT574	DIP-20	Octal edge-trig. D-type flip-flop w/ 3-st. outputs	288964CC	SN74AHCT574N .....	.43	.33	.25

Save More! Jameco Value Offering

Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, Samsung, ST and/or Toshiba product.†
AHC(T) = VHC(T)

Part No.	Cross Ref.	1	10	100
289326CC	74AHCT138M	\$.45	\$.365	\$.277
243248CC	74AHCT138N .....	.36	.32	.23
289351CC	74AHCT139M .....	.44	.35	.277
243256CC	74AHCT139N .....	.26	.252	.185
289414CC	74AHCT240M .....	.41	.349	.269
214244CC	74AHCT240N .....	.26	.22	.165
289457CC	74AHCT244M .....	.39	.299	.227
63466CC	74AHCT244N .....	.26	.216	.19
289481CC	74AHCT245M .....	.39	.299	.227
43887CC	74AHCT245N .....	.33	.27	.20
289511CC	74AHCT373M .....	.39	.299	.227
43908CC	74AHCT373N .....	.26	.22	.165
289570CC	74AHCT374M .....	.26	.216	.193
43916CC	74AHCT374N .....	.26	.22	.165
289633CC	74AHCT574M .....	.39	.30	.227
214252CC	74AHCT574N .....	.39	.299	.227

74ABTXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	Philips
ABT	DIP	SN74ABTXXXN	74ABTXXXN	74ABTXXXPC	74ABTXXXN
	SOIC	SN74ABTXXXD/DW	74ABTXXXD	74ABTXXXSC	74ABTXXXD

74ABT Series – BiCMOS Technology for High Performance Bus Systems



Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!



– Save 6-10%

Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100
74ABT125	SOIC-14	Quad buffer w/ 3-state outputs	290811CC	SN74ABT125D	\$.51	\$.41	\$.31
74ABT125	DIP-14	Quad bus buffer gate w/ 3-state outputs	290482CC	SN74ABT125N .....	.41	.34	.29
74ABT240	SOIC-20	Octal buffer/driver w/ 3-state outputs	290909CC	SN74ABT240ADW .....	.82	.62	.48
74ABT240	DIP-20	Octal buffer/driver w/ 3-state outputs	290503CC	SN74ABT240AN .....	.72	.62	.47
74ABT241	SOIC-20	Octal buffer/driver w/ 3-state outputs	290941CC	SN74ABT241ADW .....	.82	.62	.48
74ABT244	SOIC-20	Octal buffer/driver w/ 3-state outputs	291160CC	SN74ABT244ADW .....	.67	.51	.39
74ABT244	DIP-20	Octal buffer/driver w/ 3-state outputs	290511CC	SN74ABT244AN .....	.67	.51	.39
74ABT245	SOIC-20	Octal bus transceiver w/ 3-state outputs	291186CC	SN74ABT245BDW .....	.67	.51	.39
74ABT245	DIP-20	Octal bus transceiver w/ 3-state outputs	290520CC	SN74ABT245BN .....	.67	.51	.39
74ABT373	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	291223CC	SN74ABT373DW .....	.65	.491	.373
74ABT373	DIP-20	Octal D-type flip-flop w/ 3-state outputs	290546CC	SN74ABT373N .....	.65	.491	.377
74ABT374	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	291266CC	SN74ABT374ADW .....	.67	.51	.39
74ABT374	DIP-20	Octal D-type flip-flop w/ 3-state outputs	290589CC	SN74ABT374AN .....	.65	.491	.373
74ABT377	SOIC-20	Octal edge-triggered D-type flip-flop w/ clock enable	291354CC	SN74ABT377ADW .....	.74	.56	.43
74ABT534	SOIC-20	Octal edge-triggered D-type flipflop w/ 3-st. outputs	291371CC	SN74ABT534ADW .....	.79	.66	.59
74ABT541	SOIC-20	Octal buffer/driver w/ 3-state outputs	291418CC	SN74ABT541BDW .....	.66	.47	.42
74ABT541	DIP-20	Octal buffer/driver w/ 3-state outputs	290685CC	SN74ABT541BN .....	.74	.56	.43
74ABT573	SOIC-20	Octal transparent D-type latch w/ 3-st. outputs	291442CC	SN74ABT573ADW .....	.65	.49	.38
74ABT573	DIP-20	Octal transparent D-type latch w/ 3-st. outputs	290693CC	SN74ABT573AN .....	.67	.51	.39
74ABT574	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	291557CC	SN74ABT574ADW .....	.67	.51	.39
74ABT574	DIP-20	Octal D-type flip-flop w/ 3-state outputs	290706CC	SN74ABT574AN .....	.32	.309	.304
74ABT646	SOIC-20	Octal bus transceiver w/ 3-state outputs	291602CC	SN74ABT646ADW	1.25	1.06	.86
74ABT646	DIP-24	Octal bus transceiver w/ 3-state outputs	290714CC	SN74ABT646ANT	1.29	1.09	.87
74ABT652	SOIC-24	Octal registered transceivers w/ 3-st. outputs	291741CC	SN74ABT652ADW	1.35	1.12	.89
74ABT2240	SOIC-20	Octal buffer/driver w/ 3-state outputs	291750CC	SN74ABT2240ADW .....	.82	.62	.47
74ABT2244	SOIC-20	Octal buffer/driver w/ 30 ohms series resistors, 3-st.	291776CC	SN74ABT2244ADW .....	.65	.491	.377
74ABT2244	DIP-20	Octal buffer/driver w/ 30 ohms series resistors, 3-st.	290722CC	SN74ABT2244AN .....	.65	.491	.377
74ABT5402	SOIC-28	12-bit line/memory driver w/ 3-state outputs	291397CC	SN74ABT5402ADW	3.09	2.69	2.53

Save More! Jameco Value Offering

Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild and/or Philips product.†

Part No.	Cross Ref.	1	10	100
290837CC	74ABT125D	\$.45	\$.365	\$.277
290351CC	74ABT125N .....	.36	.291	.27
290917CC	74ABT240AD .....	.72	.55	.42
290360CC	74ABT240AN .....	.63	.55	.42
290950CC	74ABT241AD .....	.72	.548	.42
291178CC	74ABT244AD .....	.59	.45	.34
290378CC	74ABT244AN .....	.59	.448	.344
291194CC	74ABT245BD .....	.59	.448	.344
290386CC	74ABT245BN .....	.59	.448	.344
291240CC	74ABT373D .....	.59	.448	.344
290415CC	74ABT373N .....	.59	.448	.34
291274CC	74ABT374AD .....	.59	.448	.344
290423CC	74ABT374AN .....	.59	.448	.344
291362CC	74ABT377AD .....	.66	.50	.378
291389CC	74ABT534AD .....	.73	.65	.59
291426CC	74ABT541BD .....	.58	.398	.37
290440CC	74ABT541BN .....	.66	.498	.378
291469CC	74ABT573AD .....	.59	.448	.34
290431CC	74ABT573AN .....	.59	.448	.344
291565CC	74ABT574AD .....	.59	.45	.34
290458CC	74ABT574AN .....	.35	.309	.304
291637CC	74ABT646AD	1.15	.97	.78
290466CC	74ABT646AN	1.15	.97	.78
291733CC	74ABT652AD	1.15	.99	.80
291768CC	74ABT2240AD .....	.72	.55	.416
291784CC	74ABT2244AD .....	.59	.448	.34
290343CC	74ABT2244AN .....	.59	.448	.344
291400CC	74ABT5402AD	2.79	2.69	2.53

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74HC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
HC(T)	DIP	SN74HC(T)XXXN	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	DIP	CD74HC(T)XXE	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	SOIC	SN74HC(T)XXXD/DW	74HC(T)XXXM/MM	MM74HC(T)XXXM/MM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	SOIC	CD74HC(T)XXXM	74HC(T)XXXM/MM	MM74HC(T)XXXM/MM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW

74HC Series – HC family offers CMOS inputs with CMOS outputs

Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!



– Save 6-10%

Base No.	Package	Description	Part No.	T.I. Product No.	Quantity			Part No.	Cross Ref.	Quantity		
					1	10	100			1	10	100
74HC00	SOIC-14	Quad 2-input NAND gate	251889CC	SN74HC00D	* .137	.12		197106CC	74HC00M	* .125	.094	
74HC00	DIP-14	Quad 2-input NAND gate	250966CC	SN74HC00N	.24	.21	.151	45161CC	74HC00N	.22	.19	.14
74HC02	SOIC-14	Quad 2-input NOR gate	251926CC	SN74HC02D	* .137	.12		197114CC	74HC02M	* .125	.094	
74HC02	DIP-14	Quad 2-input NOR gate	250974CC	SN74HC02N	.26	.173	.156	45188CC	74HC02N	* .15	.113	
74HC04	SOIC-14	Hex inverter (buffered)	251934CC	SN74HC04D	* .137	.12		197122CC	74HC04M	* .125	.094	
74HC04	DIP-14	Hex inverter (buffered)	250982CC	SN74HC04N	.26	.228	.193	45209CC	74HC04N	.24	.208	.176
74HC08	SOIC-14	Quad 2-input AND gate	251942CC	SN74HC08D	* .137	.12		197131CC	74HC08M	* .125	.109	
74HC08	DIP-14	Quad 2-input AND gate	251002CC	SN74HC08N	.26	.20	.166	45225CC	74HC08N	.24	.16	.12
74HC10	SOIC-14	Triple 3-input NAND gate	251951CC	SN74HC10D	* .137	.12		243272CC	74HC10M	* .125	.094	
74HC10	DIP-14	Triple 3-input NAND gate	251011CC	SN74HC10N	.31	.228	.202	45233CC	74HC10N	.28	.208	.185
74HC11	DIP-14	Triple 3-input AND gate	251037CC	SN74HC11N	* .20	.173	.156	45268CC	74HC11N	* .158	.118	
74HC14	SOIC-14	Hex inverter Schmitt trigger	251969CC	SN74HC14D	* .155	.138		197149CC	74HC14M	* .141	.126	
74HC14	DIP-14	Hex inverter Schmitt trigger	251045CC	SN74HC14N	.24	.21	.18	45364CC	74HC14N	.22	.19	.17
74HC30	SOIC-14	8-input NAND gate	251985CC	CD74HC30M	.31	.28	.20	243281CC	74HC30M	.28	.24	.18
74HC30	DIP-14	8-input NAND gate	251070CC	CD74HC30E	.31	.28	.20	45786CC	74HC30N	.28	.24	.18
74HC32	SOIC-14	Quad 2-input OR gate	251993CC	SN74HC32D	* .137	.12		197157CC	74HC32M	* .125	.094	
74HC32	DIP-14	Quad 2-input OR gate	251088CC	SN74HC32N	.30	.25	.22	45794CC	74HC32N	.28	.24	.18
74HC74	SOIC-14	Dual D flip-flop	252030CC	SN74HC74D	.22	.18	.17	197165CC	74HC74M	* .141	.106	
74HC74	DIP-14	Dual D flip-flop	251096CC	SN74HC74N	.38	.35	.31	46130CC	74HC74N	.35	.32	.29
74HC85	SOIC-16	4-bit magnitude comparator	252048CC	CD74HC85M	.59	.54	.49	243299CC	74HC85M	.43	.37	.27
74HC85	DIP-16	4-bit magnitude comparator	251109CC	CD74HC85E	.47	.45	.40	46172CC	74HC85N	.43	.37	.27
74HC86	SOIC-14	Quad Exclusive OR gate	252056CC	SN74HC86D	* .118	.11		243301CC	74HC86M	* .108	.081	
74HC86	DIP-14	Quad Exclusive-OR gate	251133CC	SN74HC86N	.27	.24	.22	46181CC	74HC86N	.25	.22	.20
74HC123	SOIC-16	Dual retriggerable monostable multivibrator	252064CC	CD74HC123M	.43	.328	.248	243310CC	74HC123M	.39	.33	.25
74HC123	DIP-16	Dual retriggerable monostable multivibrator	251184CC	CD74HC123E	.40	.33	.248	45292CC	74HC123N	.37	.30	.227
74HC125	SOIC-14	Quad bus buffer tri-state	252072CC	SN74HC125D	.23	.191	.166	243328CC	74HC125M	.21	.18	.13
74HC125	DIP-14	Quad bus buffer tri-state	251192CC	SN74HC125N	* .31	.264	.23	45305CC	74HC125N	.28	.24	.18
74HC132	SOIC-14	Quad 2-input NAND Schmitt trigger	252081CC	SN74HC132D	.26	.218	.193	243731CC	74HC132M	.24	.20	.15
74HC132	DIP-14	Quad 2-input NAND Schmitt trigger	251205CC	SN74HC132N	.31	.264	.23	45321CC	74HC132N	.28	.264	.23
74HC138	SOIC-16	3-to-8 decoder/demultiplexer	252099CC	SN74HC138D	* .26	.218	.193	197173CC	74HC138M	* .24	.20	.15
74HC138	DIP-16	3-to-8 decoder/demultiplexer	251213CC	SN74HC138N	.33	.29	.20	45330CC	74HC138N	.30	.27	.18
74HC139	SOIC-16	2 to 4 decoder/demultiplexer	252101CC	SN74HC139D	.40	.36	.304	243740CC	74HC139M	.36	.32	.277
74HC139	DIP-16	2-to 4 decoder/demultiplexer	251221CC	SN74HC139N	.40	.328	.248	45356CC	74HC139N	.36	.299	.227
74HC154	SOIC-24	4/16 line decoder	252110CC	CD74HC154M	.43	.328	.248	243758CC	74HC154WM	.40	.30	.23
74HC154	DIP-24	4/16 line decoder (.6"W)	251230CC	CD74HC154E	* .57	.55	.53	111739CC	74HC154WN	* .52	.44	.429
74HC154	DIP-24	4/16 line decoder (.3"W)	251248CC	CD74HC154EN	* .46	.41	.367	45401CC	74HC154N	* .43	.38	.34
74HC157	SOIC-16	Quad 2-input multiplexer	252136CC	SN74HC157D	.23	.183	.17	243766CC	74HC157M	.21	.166	.125
74HC157	DIP-16	Quad 2-input multiplexer	252199CC	SN74HC157N	* .28	.20	.175	45428CC	74HC157N	* .25	.21	.158
74HC161	SOIC-16	Synchronous 4-bit counter	242144CC	SN74HC161D	* .27	.182	.156	243774CC	74HC161M	* .25	.162	.122
74HC161	DIP-16	Synchronous 4-bit counter	251301CC	SN74HC161N	* .33	.237	.212	45452CC	74HC161N	* .30	.26	.19
74HC163	DIP-16	Synchronous 4-bit counter	251310CC	SN74HC163N	.30	.25	.24	45479CC	74HC163N	.28	.24	.18
74HC164	SOIC-14	8-bit serial shift register	252152CC	SN74HC164D	* .25	.21	.193	197181CC	74HC164M	* .23	.20	.15
74HC164	DIP-14	8-bit serial shift register	251328CC	SN74HC164N	.41	.33	.25	45487CC	74HC164N	.38	.30	.23
74HC165	SOIC-16	Parallel load 8-bit serial shift register	252161CC	SN74HC165D	.36	.29	.22	197190CC	74HC165M	.41	.34	.25
74HC165	DIP-16	Parallel load 8-bit serial shift register	251336CC	SN74HC165N	.35	.30	.22	45495CC	74HC165N	.32	.27	.20
74HC174	SOIC-16	Hex D flip-flop with clear	252179CC	SN74HC174D	* .25	.191	.166	243782CC	74HC174M	* .23	.174	.151
74HC174	DIP-16	Hex D flip-flop with clear	251352CC	SN74HC174N	.41	.33	.25	45508CC	74HC174N	.38	.30	.23
74HC192	DIP-16	Decade up/down counter with clear	251395CC	CD74HC192E	.175	1.57	1.39	45541CC	74HC192N	1.59	1.45	1.29
74HC193	SOIC-16	Binary up/down counter with clear	252187CC	SN74HC193D	.43	.328	.248	243791CC	74HC193M	.39	.299	.227
74HC193	DIP-16	Binary up/down counter with clear	251387CC	SN74HC193N	* .30	.218	.166	45559CC	74HC193N	* .27	.199	.151
74HC221	SOIC-16	Dual mono. multivibrator Schmitt trigger	252259CC	CD74HC221M	.47	.45	.41	243803CC	74HC221AM	.43	.37	.27

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74HC Series (Continued) – HC family offers CMOS inputs with CMOS outputs

Quantity
SAVE

DIP



SOIC



Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!

New Lower Prices

TEXAS INSTRUMENTS – Save 6-10%

Save More! Jameco Value Offering

Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Toshiba product.†

Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100
74HC221	DIP-16	Dual mono. multivibrator Schmitt trigger	251408CC	CD74HC221E	\$.58	\$.437	\$.331	45604CC	74HC221N	\$.53	\$.398	\$.302
74HC240	SOIC-20	Octal inverting line driver tri-state	252267CC	SN74HC240DW	\$.34 .28	.237	.202	243811CC	74HC240WM	\$.51 .25	.21	(.16)
74HC240	DIP-20	Octal inverting line driver tri-state	251416CC	SN74HC240N	.37	.319	.276	45612CC	74HC240N	.34	.29	(.22)
74HC244	SOIC-20	Octal driver tri-state	252275CC	SN74HC244DW	\$.34 .28	.237	.202	197202CC	74HC244M	\$.51 .25	.21	(.16)
74HC244	DIP-20	Octal driver tri-state	251424CC	SN74HC244N	.49	.42	.31	45655CC	74HC244N	.45	.39	.35
74HC245	SOIC-20	Octal transceiver tri-state	252291CC	SN74HC245DW	.43	.328	.248	197211CC	74HC245M	.39	.33	(.25)
74HC245	DIP-20	Octal transceiver tri-state	251432CC	SN74HC245N	.49	.41	.31	45671CC	74HC245N	.45	.38	(.29)
74HC273	SOIC-20	Octal D-type flip-flops with clear	252304CC	SN74HC273DW	\$.35 .28	.237	.202	243820CC	74HC273WM	\$.52 .25	.21	(.16)
74HC273	DIP-20	Octal D-type flip-flop with clear	251459CC	SN74HC273N	.32	.246	.23	45743CC	74HC273N	.29	.25	(.18)
74HC373	SOIC-20	Octal D-type flip-flop tri-state	252312CC	SN74HC373DW	\$.34 .28	.237	.202	197229CC	74HC373M	\$.51 .25	.21	(.16)
74HC373	DIP-20	Octal D-type flip-flop tri-state	251475CC	SN74HC373N	.49	.42	.38	45831CC	74HC373N	.45	.39	.35
74HC374	SOIC-20	Octal D-type flip-flop edge-trig tri-state	252321CC	SN74HC374DW	\$.34 .28	.209	.184	197237CC	74HC374M	\$.51 .25	.191	.17
74HC374	DIP-20	Octal D-type flip-flop edge-trig tri-state	251483CC	SN74HC374N	.53	.42	.31	45858CC	74HC374N	.49	.39	.29
74HC393	SOIC-14	Dual 4-bit binary counter	252339CC	SN74HC393D	\$.52 .28	.237	.202	243838CC	74HC393M	\$.29 .25	.21	(.16)
74HC393	DIP-14	Dual 4-bit binary counter	251504CC	SN74HC393N	.36	.32	.243	45874CC	74HC393N	.33	.28	(.21)
74HC540	SOIC-20	Octal invert. buffer/line driver tri-state	252347CC	SN74HC540DW	\$.52 .28	.246	.221	243846CC	74HC540WM	\$.29 .26	.22	(.165)
74HC540	DIP-20	Octal invert. buffer/line driver tri-state	251512CC	SN74HC540N	.34	.291	.258	109760CC	74HC540N	\$.53 .31	.26	(.20)
74HC541	SOIC-20	Octal buffer/line driver tri-state	252355CC	SN74HC541DW	.29	.264	.221	243854CC	74HC541WM	.26	.224	.202
74HC541	DIP-20	Octal buffer/line driver tri-state	251521CC	SN74HC541N	.38	.335	.319	46050CC	74HC541N	.34	.305	.249
74HC573	SOIC-20	Octal D-type flip-flop tri-state	252363CC	SN74HC573ADW	.29	.246	.221	197245CC	74HC573M	\$.53 .26	.22	.17
74HC573	DIP-20	Octal D-type flip-flop tri-state	251547CC	SN74HC573AN	.41	.346	.304	46076CC	74HC573N	.37	.31	(.233)
74HC574	SOIC-20	Octal D-type flip-flop tri-state	252371CC	SN74HC574DW	.29	.191	.175	197253CC	74HC574M	\$.26 .26	.174	.14
74HC574	DIP-20	Octal D-type flip-flop tri-state	251555CC	SN74HC574N	.41	.346	.304	46084CC	74HC574N	.37	.31	(.233)
74HC590	DIP-16	8-bit binary counter w/ output reg. tri-state	251635CC	SN74HC590AN	.41	.346	.304	88090CC	74HC590N	.38	.32	(.24)
74HC595	SOIC-16	8-bit serial-to-parallel shift reg. tri-state	252523CC	SN74HC595D	\$.34 .28	.237	.202	245075CC	74HC595M	\$.51 .25	.21	(.16)
74HC595	DIP-16	8-bit serial-to-parallel shift reg. tri-state	251643CC	SN74HC595N	.67	.48	.42	46105CC	74HC595N	.62	.44	.39
74HC688	SOIC-20	8-bit mag. comparator	252531CC	SN74HC688DW	\$.52 .42	.355	.313	245083CC	74HC688WM	\$.48 .38	.324	.286
74HC688	DIP-20	8-bit mag. comparator	251651CC	SN74HC688N	\$.51 .49	.41	.368	46113CC	74HC688N	\$.52 .44	.37	(.28)
74HC4017	DIP-16	Decade ctr./div. with 10 decoded outputs	251660CC	CD74HC4017E	.54	.49	.469	45891CC	74HC4017N	.50	.46	.428
74HC4020	SOIC-16	14-stage binary counter	252540CC	SN74HC4020D	.45	.20	.18	245091CC	74HC4020M	.41	.166	(.125)
74HC4020	DIP-16	14-stage binary counter	251678CC	CD74HC4020E	\$.47 .29	.20	.184	45903CC	74HC4020N	\$.41 .26	.183	.168
74HC4040	SOIC-16	12-stage binary counter	252558CC	SN74HC4040D	.27	.218	.202	245104CC	74HC4040M	.25	.199	.185
74HC4040	DIP-16	12-stage binary counter	251686CC	SN74HC4040N	.33	.26	.22	45920CC	74HC4040N	.30	.24	.21
74HC4046	SOIC-16	Phase lock loop	252460CC	CD74HC4046AM	.39	.328	.294	243900CC	74HC4046M	\$.41 .35	.299	.252
74HC4046	DIP-16	Phase lock loop	251694CC	CD74HC4046AE	.49	.40	.30	45938CC	74HC4046N	.44	.37	(.28)
74HC4049	SOIC-16	HEX inverting buffers	252478CC	CD74HC4049M	.36	.33	.30	243918CC	74HC4049M	.31	.266	.235
74HC4049	DIP-16	Hi speed HEX inverting buffers	272049CC	CD74HC4049E	.40	.38	.29	272057CC	74HC4049N	.36	.34	.27
74HC4050	SOIC-16	HEX non-inverting buffers	252486CC	CD74HC4050M	.42	.355	.276	243926CC	74HC4050M	.38	.324	.252
74HC4050	DIP-16	Hi speed HEX non-inverting buffers	272065CC	CD74HC4050E	.45	.364	.276	272073CC	74HC4050N	.41	.332	.252
74HC4051	SOIC-16	Single 8-channel multiplexer/demultiplexer	252380CC	CD74HC4051M	.39	.36	.285	243862CC	74HC4051M	.35	.32	.26
74HC4051	DIP-16	Single 8-channel multiplexer/demultiplexer	251707CC	CD74HC4051E	.41	.319	.294	88102CC	74HC4051N	.37	.31	(.233)
74HC4052	SOIC-16	Hi speed analog multiplexer/demultiplexer	252494CC	CD74HC4052M	.42	.328	.248	245059CC	74HC4052M	.39	.30	.23
74HC4052	DIP-16	Hi speed analog multiplexer/demultiplexer	272081CC	CD74HC4052E	.48	.36	.273	272090CC	74HC4052N	.44	.329	.249
74HC4053	SOIC-16	Hi speed analog multiplexer/demultiplexer	252515CC	CD74HC4053M	.38	.35	.28	245067CC	74HC4053M	.35	.32	.26
74HC4053	DIP-16	Hi speed analog multiplexer/demultiplexer	272111CC	CD74HC4053E	.35	.291	.248	272129CC	74HC4053N	.32	.266	.227
74HC4060	SOIC-16	14-stage binary counter	252419CC	SN74HC4060D	.43	.33	.25	243871CC	74HC4060M	.40	.30	.23
74HC4060	DIP-16	14-stage binary counter	251803CC	SN74HC4060N	.43	.33	.25	45962CC	74HC4060N	.40	.30	.23
74HC4066	SOIC-14	Quad analog switch	252435CC	SN74HC4066D	.42	.355	.304	243889CC	74HC4066M	.39	.324	.286
74HC4066	DIP-14	Quad analog switch	251811CC	SN74HC4066N	.45	.364	.276	45971CC	74HC4066N	.41	.332	.252
74HC4316	SOIC-16	Hi speed quad analog switches w/ level translation	252566CC	CD74HC4316M	\$.45 .42	.355	.29	245112CC	74HC4316M	.39	.324	.265
74HC4316	DIP-16	Hi speed quad analog switches w/ level translation	272145CC	CD74HC4316E	.49	.41	.368	272153CC	74HC4316N	.44	.374	.336
74HC4514	DIP-24	4/16-line decoder with latch (.3"W)	318908CC	CD74HC4514EN	.88	.83	.80	46009CC	74HC4514N (.3"W)	.81	.79	.68
74HC4514	DIP-24	4/16-line decoder with latch (.6"W)	251820CC	CD74HC4514E	1.69	1.54	1.40					
74HC4538	SOIC-16	Dual retrigger. mono. multivibrator	252443CC	CD74HC4538M	\$.46 .30	.25	.23	243897CC	74HC4538M	\$.42 .27	.23	.21
74HC4538	DIP-16	Dual retrigger. mono. multivibrator	251838CC	CD74HC4538E	.46	.421	.302	46017CC	74HC4538N	.43	.39	.28

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

Call us with your \$100 minimum order.

We'll Find Any IC!

1-800-831-4242

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74HC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
HC(T)	DIP	SN74HC(T)XXXN	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	DIP	CD74HC(T)XXE	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	SOIC	SN74HC(T)XXXD/DW	74HC(T)XXXM/MM	MM74HC(T)XXXM/MM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	SOIC	CD74HC(T)XXXM	74HC(T)XXXM/MM	MM74HC(T)XXXM/MM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW

74HCT Series – HCT family offers TTL inputs with CMOS outputs



Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!

Save More! Jameco Value Offering

Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Toshiba product.†

* Prepackaged: order in increments of 10 or 100

Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100		
74HCT00	SOIC-14	Quad 2-input NAND gate	246393CC	SN74HCT00D	.....*	\$ .16	\$.15	246027CC	74HCT00M	.....*	\$ .15	\$.14		
74HCT00	DIP-14	Quad 2-input NAND gate	246406CC	SN74HCT00N	.....	.26	.23	.20	44871CC	74HCT00N	.....	.24	.20	(.15)
74HCT02	SOIC-14	Quad 2-input positive NOR gate	268373CC	SN74HCT02D	.....	.31	.28	.223	268390CC	74HCT02M	.....	.28	.24	.203
74HCT02	DIP-14	Quad 2-input NOR gate	246414CC	SN74HCT02N	.....	.40	.319	.221	44880CC	74HCT02N	.....	.36	.291	.202
74HCT04	SOIC-14	Hex inverter	246369CC	SN74HCT04D	.....	.20	.155	.138	246035CC	74HCT04M	.....	*	.141	.126
74HCT04	DIP-14	Hex inverter	246422CC	SN74HCT04N	.....	.25	.22	.20	44898CC	74HCT04N	.....	.23	.20	(.15)
74HCT08	SOIC-14	Quad 2-input AND gate	246078CC	SN74HCT08D	.....	*	.16	.14	246043CC	74HCT08M	.....	*	.15	.126
74HCT08	DIP-14	Quad 2-input AND gate	246431CC	SN74HCT08N	.....	.20	.155	.138	44901CC	74HCT08N	.....	*	.141	(.106)
74HCT14	SOIC-14	Hex inverter Schmitt trigger	246377CC	SN74HCT14D	.....	.21	.173	.156	246060CC	74HCT14M	.....	*	.158	.143
74HCT14	DIP-14	Hex inverter Schmitt trigger	246449CC	SN74HCT14N	.....	.22	.173	.156	44935CC	74HCT14N	.....	.20	.158	.143
74HCT32	SOIC-14	Quad 2-input OR gate	246318CC	SN74HCT32D	.....	*	.146	.14	246123CC	74HCT32M	.....	*	.141	.126
74HCT32	DIP-14	Quad 2-input OR gate	246457CC	SN74HCT32N	.....	.20	.164	.156	45057CC	74HCT32N	.....	*	.149	(.112)
74HCT74	SOIC-14	Dual D flip-flop	246262CC	SN74HCT74D	.....	*	.173	.156	246254CC	74HCT74M	.....	*	.158	.143
74HCT74	DIP-14	Dual D flip-flop	246465CC	SN74HCT74N	.....	.27	.228	.202	45137CC	74HCT74N	.....	.25	.21	(.16)
74HCT86	SOIC-14	Quad 2-input exclusive OR gate	268411CC	CD74HCT86M	.....	.36	.32	.26	268429CC	74HCT86M	.....	.33	.29	.20
74HCT86	DIP-14	Quad 2-input exclusive OR gate	246473CC	CD74HCT86E	.....	.24	.19	.13	45145CC	74HCT86N	.....	.22	.18	.12
74HCT123	SOIC-16	Dual retrigg. monostable multivibrator w/ reset	271951CC	CD74HCT123M	.....	.32	.27	.22	271960CC	74HCT123M	.....	.29	.26	.23
74HCT123	DIP-16	Dual retrigg. monostable multivibrator w/ reset	246481CC	CD74HCT123E	.....	.30	.246	.239	88049CC	74HCT123N	.....	.27	.224	.218
74HCT125	SOIC-14	Quad 3-state bus buffer	271986CC	SN74HCT125D	.....	.36	.33	.25	271994CC	74HCT125M	.....	.33	.30	.23
74HCT125	DIP-14	Quad 3-state bus buffer	246490CC	SN74HCT125N	.....	.29	.237	.212	243192CC	74HCT125N	.....	.26	.216	.193
74HCT138	SOIC-16	3 to 8 decoder/demultiplexer	246385CC	SN74HCT138D	.....	.29	.25	.21	246051CC	74HCT138M	.....	.27	.24	.19
74HCT138	DIP-16	3 to 8 decoder/demultiplexer	246502CC	SN74HCT138N	.....	.36	.309	.248	44927CC	74HCT138N	.....	.33	.282	.26
74HCT139	SOIC-16	2 to 4 decoder/demultiplexer	246289CC	SN74HCT139D	.....	.27	.228	.212	246271CC	74HCT139M	.....	.25	.208	.193
74HCT139	DIP-16	2 to 4 decoder/demultiplexer	246511CC	SN74HCT139N	.....	.35	.29	.22	63773CC	74HCT139N	.....	.32	.266	.202
74HCT154	DIP-24	4 to 16 decoder/demultiplexer	246521CC	CD74HCT154E	.....	1.15	.90	.84	88057CC	74HCT154N	.....	1.05	.82	.76
74HCT157	SOIC-16	Quad 2 to 1 data selectors/multiplexers	246300CC	SN74HCT157D	.....	.45	.39	.294	246297CC	74HCT157M	.....	.41	.357	.269
74HCT157	DIP-16	Quad 2 to 1 data selectors/multiplexers	272145CC	SN74HCT157N	.....	.49	.41	.368	272196CC	74HCT157N	.....	.31	.26	.20
74HCT164	SOIC-14	8-bit serial in/parallel out shift register	253016CC	CD74HCT164M	.....	.34	.291	.267	253024CC	74HCT164M	.....	.30	.266	.244
74HCT164	DIP-14	8-bit serial in/parallel out shift register	250819CC	CD74HCT164E	.....	.39	.33	.294	44978CC	74HCT164N	.....	.36	.30	.26
74HCT240	SOIC-20	Octal inverting line driver w/ 3-st. outputs	246351CC	SN74HCT240DW	.....	.34	.31	.285	246086CC	74HCT240WM	.....	.31	.29	.26
74HCT240	DIP-20	Octal inverting line driver w/ 3-st. outputs	250827CC	SN74HCT240N	.....	.35	.32	.29	45014CC	74HCT240N	.....	.32	.29	.269
74HCT244	SOIC-20	Octal driver tri-state	246342CC	SN74HCT244DW	.....	.43	.33	.25	246094CC	74HCT244WM	.....	.39	.30	.23
74HCT244	DIP-20	Octal driver tri-state	250835CC	SN74HCT244N	.....	.40	.33	.25	45022CC	74HCT244N	.....	.36	.32	.23
74HCT245	SOIC-20	Octal transceiver w/ 3-state outputs	246334CC	SN74HCT245DW	.....	.34	.282	.248	246107CC	74HCT245WM	.....	.31	.257	.227
74HCT245	DIP-20	Octal transceiver w/ 3-state outputs	250843CC	SN74HCT245N	.....	.42	.33	.25	45031CC	74HCT245N	.....	.37	.30	(.23)
74HCT273	SOIC-20	Octal D-type flip-flop with clear	246326CC	SN74HCT273DW	.....	.23	.173	.147	246115CC	74HCT273WM	.....	.21	.158	.134
74HCT273	DIP-20	Octal D-type flip-flop with clear	250851CC	SN74HCT273N	.....	.33	.30	.276	45049CC	74HCT273N	.....	.30	.26	(.19)
74HCT373	SOIC-20	Octal D-type flip-flop w/ 3-state outputs	246140CC	SN74HCT373DW	.....	.34	.282	.248	246131CC	74HCT373WM	.....	.31	.257	.227
74HCT373	DIP-20	Octal D-type flip-flop w/ 3-state outputs	250878CC	SN74HCT373N	.....	.43	.328	.248	45065CC	74HCT373N	.....	.39	.299	.227
74HCT374	SOIC-20	Octal D-type flip-flop edge-trig. w/ 3-st. outputs	246166CC	SN74HCT374DW	.....	.34	.31	.25	246158CC	74HCT374WM	.....	.31	.29	.23
74HCT374	DIP-20	Octal D-type flip-flop edge-trig. w/ 3-st. outputs	250894CC	SN74HCT374N	.....	.26	.218	.21	45073CC	74HCT374N	.....	.24	.20	.193
74HCT393	DIP-14	Dual 4-stage binary counter	250907CC	CD74HCT393E	.....	.47	.355	.27	243205CC	74HCT393N	.....	.43	.324	.244
74HCT540	SOIC-20	Octal 3-state buffer	246182CC	SN74HCT540DW	.....	.47	.38	.294	246174CC	74HCT540WM	.....	.43	.374	.266
74HCT540	DIP-20	Octal 3-state buffer	250915CC	SN74HCT540N	.....	.50	.38	.294	109778CC	74HCT540N	.....	.46	.349	.269
74HCT541	SOIC-20	Octal buffer/line driver w/ 3-state outputs	246203CC	SN74HCT541DW	.....	.32	.282	.248	246191CC	74HCT541WM	.....	.30	.257	.227
74HCT541	DIP-20	Octal buffer/line driver w/ 3-state outputs	250923CC	SN74HCT541N	.....	.45	.382	.294	99303CC	74HCT541N	.....	.41	.35	(.26)
74HCT573	SOIC-20	Octal D-type latched flip-flop w/ 3-st. outputs	246211CC	SN74HCT573DW	.....	.43	.33	.25	246220CC	74HCT573WM	.....	.39	.30	.23
74HCT573	DIP-20	Octal D-type latched flip-flop w/ 3-st. outputs	250931CC	SN74HCT573N	.....	.38	.33	.25	45090CC	74HCT573N	.....	.35	.30	.23
74HCT574	SOIC-20	Octal D-type flip-flop edge-trig. w/ 3-st. outputs	246246CC	SN74HCT574DW	.....	.38	.33	.25	246238CC	74HCT574WM	.....	.34	.32	.23
74HCT574	DIP-20	Octal D-type flip-flop edge-trig. w/ 3-st. outputs	250940CC	SN74HCT574N	.....	.43	.33	.25	45102CC	74HCT574N	.....	.39	.30	(.23)
74HCT688	DIP-20	8-bit magnitude comparator	250958CC	CD74HCT688E	.....	.64	.52	.41	45129CC	74HCT688N	.....	.58	.49	(.37)

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74FXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	Philips
F	DIP	SN74FXXXN	74FXXXN	74FXXXPC	N74FXXXN
	SOIC	SN74FXXXD/DW	74FXXXD	74FXXXSC	N74FXXXD

74F Series – General purpose family of high speed advanced bipolar logic



Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!



– Save 6-10%

Save More! Jameco Value Offering

Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, and/or Philips product.[†]

Base No.	Package	Description	Part No.	T.I. Product No.	1			Part No.	Cross Ref.	1		
					10	100				10	100	
74F00	SOIC-14	Quad 2-input NAND gate	282845CC	SN74F00D	.21	.16	\$.143	287697CC	74F00D	*.141	\$.119	
74F00	DIP-14	Quad 2-input NAND gate	281471CC	SN74F00N	.21	.16	.14	286985CC	74F00N	*.141	.126	
74F02	SOIC-14	Quad 2-input NOR gate	282888CC	SN74F02D	.24	.21	.17	287689CC	74F02D	.21	.183	.148
74F02	DIP-14	Quad 2-input NOR gate	281480CC	SN74F02N	.29	.24	.19	286993CC	74F02N	.25	.216	.151
74F04	SOIC-14	Hex inverter	283071CC	SN74F04D	.26	.23	.19	287671CC	74F04D	.23	.199	.168
74F04	DIP-14	Hex inverter	281498CC	SN74F04N	.24	.18	.15	287005CC	74F04N	.21	.158	.119
74F08	SOIC-14	Quad 2-input AND gate	283080CC	SN74F08D	.22	.18	.16	287662CC	74F08D	.20	.158	.143
74F08	DIP-14	Quad 2-input AND gate	281501CC	SN74F08N	.22	.18	.16	287013CC	74F08N	.20	.158	.129
74F14	SOIC-14	Hex inverter w/ schmitt trigger						287654CC	74F14D	.22	.191	.176
74F14	DIP-14	Hex inverter w/ schmitt trigger						287021CC	74F14N	.22	.191	.159
74F20	DIP-14	Dual 4-input NAND gate	281527CC	SN74F20N	.23	.20	.17	287030CC	74F20N	.21	.174	.149
74F30	DIP-14	8-input NAND gate	281535CC	SN74F30N	.47	.40	.285	245121CC	74F30N	.41	.349	.252
74F32	SOIC-14	Quad 2-input OR gate	283098CC	SN74F32D	.27	.24	.20	287638CC	74F32D	.24	.208	.176
74F32	DIP-14	Quad 2-input OR gate	281543CC	SN74F32N	.36	.30	.22	287048CC	74F32N	.20	.183	.16
74F38	SOIC-14	Quad 2-input NAND buffer	283119CC	SN74F38D	.22	.155	.138	283127CC	74F38D	.20	.141	.126
74F38	DIP-14	Quad 2-input NAND buffer	281893CC	SN74F38N	.25	.22	.20	245139CC	74F38N	.22	.191	.176
74F74	SOIC-14	Quad 2-input NAND buffer w/ open collector outputs	283135CC	SN74F74D	.30	.264	.202	287620CC	74F74D	.27	.241	.171
74F74	DIP-14	D-type flip-flop w/ clear	281906CC	SN74F74N	.44	.36	.247	287056CC	74F74N	.39	.315	.199
74F86	SOIC-14	Quad 2-input OR gate	283143CC	SN74F86D	.31	.264	.202	287611CC	74F86D	.28	.241	.185
74F86	DIP-14	Quad 2-input NOR gate	281914CC	SN74F86N	.36	.30	.21	287064CC	74F86N	.32	.266	.185
74F125	SOIC-14	Quad bus buffer gate w/ 3-state outputs	283151CC	SN74F125D	.37	.30	.23	283160CC	74F125D	.33	.266	.202
74F125	DIP-14	Quad bus buffer gate w/ 3-state outputs	281922CC	SN74F125N	.40	.35	.28	245147CC	74F125N	.35	.307	.244
74F132	SOIC-14	Quad 2-input NAND schmitt trigger						283178CC	74F132D	.32	.257	.235
74F138	SOIC-16	3 to 8 decoder/demultiplexer	283186CC	SN74F138D	.34	.27	.25	287566CC	74F138D	.30	.241	.218
74F138	DIP-16	3 to 8 decoder/demultiplexer	281931CC	SN74F138N	.42	.34	.26	287072CC	74F138N	.37	.299	.227
74F139	DIP-16	1 of 4 decoder/demultiplexer						287081CC	74F139N	.26	.216	.189
74F148	SOIC-16	8 to 3 line priority encoder						283194CC	74F148D	.36	.315	.244
74F148	DIP-16	8 to 3 line priority encoder						245163CC	74F148N	.27	.241	.202
74F157	SOIC-16	2 to 1 data selector/multiplexers	283207CC	SN74F157AD	.37	.30	.28	283215CC	74F157AD	.33	.266	.244
74F157	DIP-16	2 to 1 data selector/multiplexers	281949CC	SN74F157AN	.42	.34	.26	245171CC	74F157AN	.37	.299	.227
74F161	SOIC-16	Sync. 4-bit binary counter	283469CC	SN74F161AD	.45	.34	.26	283477CC	74F161AD	.39	.299	.227
74F161	DIP-16	Sync. 4-bit binary counter	281957CC	SN74F161AN	.42	.33	.30	245180CC	74F161AN	.37	.291	.26
74F163	DIP-16	Sync. 4-bit binary counter	281965CC	SN74F163AN	.55	.446	.377	245198CC	74F163AN	.50	.407	.34
74F164	DIP-14	Shift register						245201CC	74F164AN	.40	.299	.269
74F169	SOIC-16	4-bit up/down binary counter	283485CC	SN74F169D	2.19	2.09	1.99	283493CC	74F169D	.68	.56	.52
74F169	DIP-16	4-bit up/down binary counter	281973CC	SN74F169N	.96	.87	.74	245219CC	74F169N	.88	.80	.67
74F174	DIP-16	Hex D-type flip-flop w/ clear	282693CC	SN74F174N	.34	.27	.25	282731CC	74F174N	.30	.241	.218
74F240	SOIC-20	Octal buffer/driver with 3-state outputs	283506CC	SN74F240DW	.43	.328	.248	287558CC	74F240D	.39	.299	.227
74F240	DIP-20	Octal buffer/driver with 3-state outputs	281981CC	SN74F240N	.45	.34	.26	245227CC	74F240N	.39	.299	.227
74F244	SOIC-20	Octal buffer/driver with 3-state outputs	283514CC	SN74F244DW	.52	.46	.36	287540CC	74F244D	.46	.407	.319
74F244	DIP-20	Octal buffer/driver with 3-state outputs	281990CC	SN74F244N	.45	.34	.26	287110CC	74F244N	.39	.299	.198
74F245	SOIC-20	Octal bus transceiver with 3-state outputs	283549CC	SN74F245DW	.45	.34	.26	287531CC	74F245D	.39	.299	.227
74F245	DIP-20	Octal bus transceiver with 3-state outputs	282001CC	SN74F245N	.45	.34	.26	287144CC	74F245N	.53	.402	.302
74F257	SOIC-16	Quad 2 to 1 data selector/multiplexers w/ 3-st. outputs	283565CC	SN74F257D	.43	.34	.26	283557CC	74F257D	.38	.299	.227

[†] Note: Fairchild now owns National Semi logic; and Philips now owns Signetics.



We'll Find Any IC!

Call us at 1-800-831-4242
with your \$100 minimum order.

We want your feedback, if there is something you want us to know e-mail us at feedback@jameco.com.

IC Test Clip Series

- For temporary connections to DIP package components
- Heavy-duty spring loaded hinge provides positive contact
- 20 AWG insulated gold contacts
- Color: white



Part No.	Cross Ref.	Description	1	10	25
22103CC	JTC16	16-pin (for 8, 14 and 16-pin ICs)	\$6.95	\$6.25	\$5.59
22120CC	JTC20	20-pin (for 18 and 20-pin ICs)	8.95	6.50	5.35
22162CC	JTC28	28-pin (for 24 and 28-pin ICs)	10.95	9.95	8.95
22189CC	JTC40	40-pin (for 32 and 40-pin ICs)	11.95	11.35	10.75


Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74F Series – General purpose family of high speed advanced bipolar logic



Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!

			 – Save 6-10%				and/or Philips product.†					
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100
74F257	DIP-16	Quad 2 to 1 data selector/multiplexers w/ 3 -st. outputs	282044CC	SN74F257N	\$.34	\$.28	\$.26	245235CC	74F257N	\$.30	\$.249	\$.244
74F273	DIP-20	Octal D-type flip-flop						287099CC	74F273N .....	.48	.415	.319
74F299	DIP-20	8-bit shift/storage register w/ 3-state outputs	282052CC	SN74F299N	1.25	1.00	.76	281463CC	74F299N	1.15	.93	.71
74F373	SOIC-20	Octal transparent D-type latch w/ 3-state outputs	283590CC	SN74F373DW .....	.44	.355	.267	287494CC	74F373D .....	.40	.324	.244
74F373	DIP-20	Octal transparent D-type latch w/ 3-state outputs	282079CC	SN74F373N .....	.60	.46	.35	287161CC	74F373N .....	.45	.398	.302
74F374	SOIC-20	Octal edge triggered D-type latch w/ 3-st. outputs	283602CC	SN74F374DW .....	.43	.33	.25	287486CC	74F374D .....	.39	.299	.227
74F374	DIP-20	Octal edge triggered D-type flip-flop with 3-st. outputs	282600CC	SN74F374N .....	.40	.31	.257	287187CC	74F374N .....	.35	.274	.23
74F521	SOIC-20	8-bit identity comparator	283670CC	SN74F521DW .....	.50	.382	.294	283696CC	74F521D .....	.46	.349	.269
74F521	DIP-20	8-bit identity comparator	282802CC	SN74F521N .....	.78	.66	.53	282811CC	74F521N .....	.69	.58	.47
74F541	SOIC-20	Octal buffer/driver with 3-state outputs	304961CC	SN74F541DW .....	.72	.55	.41	283653CC	74F541D .....	.66	.498	.378
74F541	DIP-20	Octal buffer/driver with 3-state outputs	282765CC	SN74F541N .....	.74	.56	.43	282773CC	74F541N .....	.66	.498	.378
74F543	SOIC-24	Octal reg. Transceiver w/ 3-state outputs	283611CC	SN74F543DW .....	.95	.80	.62	283629CC	74F543D .....	.86	.73	.59
74F543	DIP-24	Octal reg. Transceiver w/ 3-state outputs						245251CC	74F543N .....	.83	.70	.56
74F573	SOIC-20	Octal reg. Latch w/ 3-state outputs	283637CC	SN74F573DW .....	.43	.328	.248	287478CC	74F573D .....	.39	.299	.198
74F573	DIP-20	Octal reg. Latch w/ 3-state outputs	282642CC	SN74F573N .....	.43	.328	.248	287195CC	74F573N .....	.39	.299	.199
74F574	SOIC-20	D-type flip-flop with 3-state outputs	283645CC	SN74F574DW .....	.43	.328	.304	287460CC	74F574D .....	.39	.299	.198
74F574	DIP-20	D-type flip-flop with 3-state outputs	282669CC	SN74F574N .....	.45	.34	.257	287216CC	74F574N .....	.39	.299	.198
74F579	DIP-20	8-bit bidirectional counter						245260CC	74F579N	2.35	1.89	1.49

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

74LSXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	RENESAS
LS	DIP	SN74LSXXXN	74HC(T)XXXN	DM74LSXXXN	SN74LSXXXN	HD74LSXXXP
	SOIC	SN74LSXXXD/DW	74HC(T)XXXM	DM74LSXXXM/WM	SN74LSXXXD/DW	—

74LS Series – Low Power Schottky Logic



Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!

							Texas Instruments		– Save 6-10%			you. For this family, you are guaranteed to receive a Fairchild National, On Semi, Philips, ST and/or Renesas product.†				
Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100				
74LS00	SOIC-14	Quad 2-input NAND gate	308582CC	SN74LS00D	.....	\$ .45	\$.364	\$.276	198361CC	74LS00M	.....	\$ .41	\$.26	\$.20
74LS00	DIP-14	Quad 2-input NAND gate	283725CC	SN74LS00N	.....	.45	.364	.276	46252CC	74LS00N**	.....	.41	.27	.24
74LS02	SOIC-14	Quad 2-input NOR gate	308603CC	SN74LS02D	.....	.45	.364	.276	198379CC	74LS02M	.....	.41	.29	.21
74LS02	DIP-14	Quad 2-input NOR gate	283741CC	SN74LS02N	.....	.43	.328	.248	46287CC	74LS02N**	.....	.41	.25	.21
74LS03	DIP-14	Quad 2-input NAND gate (O.C.)	283784CC	SN74LS03N	.....	.45	.364	.276	46308CC	74LS03N	.....	.41	.33	.25
74LS04	SOIC-14	Hex inverter	308611CC	SN74LS04D	.....	.45	.364	.276	198387CC	74LS04M	.....	.41	.29	.21
74LS04	DIP-14	Hex inverter	283792CC	SN74LS04N	.....	.45	.364	.276	46316CC	74LS04N**	.....	.41	.26	.23
74LS05	SOIC-14	Hex inverter (O.C.)	308620CC	SN74LS05D	.....	.45	.364	.276	198395CC	74LS05M	.....	.41	.33	.252
74LS05	DIP-14	Hex inverter (O.C.)	283805CC	SN74LS05N	.....	.45	.364	.276	46341CC	74LS05N*	.....	.41	.332	.252
74LS06	SOIC-14	Hex inverter buffer/driver (O.C.)	309067CC	SN74LS06D	.....	.70	.59	.478	309075CC	74LS06M	.....	.64	.54	.437
74LS06	DIP-14	Hex inverter buffer/driver (O.C.)	295304CC	SN74LS06N	.....	.70	.59	.478	46359CC	74LS06N	.....	.64	.54	.437
74LS07	SOIC-14	Hex buffer/driver (O.C. hi-voltage)	308638CC	SN74LS07D	.....	.70	.57	.478	198408CC	74LS07M	.....	.64	.54	.41
74LS07	DIP-14	Hex buffer/driver (O.C. hi-voltage)	295312CC	SN74LS07N	.....	.60	.58	.46	46367CC	74LS07N	.....	.55	.49	.42
74LS08	SOIC-14	Quad 2-input AND gate	308654CC	SN74LS08D	.....	.45	.364	.276	198416CC	74LS08M	.....	.41	.33	.25
74LS08	DIP-14	Quad 2-input AND gate	295401CC	SN74LS08N	.....	.45	.364	.276	46375CC	74LS08N**	.....	.36	.31	.22
74LS09	SOIC-14	Quad 2-input AND gate (O.C.)	309083CC	SN74LS09D	.....	.45	.364	.276	309091CC	74LS09M	.....	.41	.332	.252
74LS09	DIP-14	Quad 2-input AND gate (O.C.)	295419CC	SN74LS09N	.....	.56	.428	.322	46391CC	74LS09N	.....	.51	.388	.294
74LS10	SOIC-14	Triple 3-input NAND gate							198424CC	74LS10M	.....	.45	.383	.287
74LS10	DIP-14	Triple 3-input NAND gate	295427CC	SN74LS10N	.....	.45	.364	.276	46404CC	74LS10N*	.....	.30	.20	.15
74LS11	SOIC-14	Triple 3-input AND gate							198432CC	74LS11M	.....	.41	.33	.25
74LS11	DIP-14	Triple 3-input AND gate	295443CC	SN74LS11N	.....	.45	.364	.275	46439CC	74LS11N*	.....	.41	.332	.26
74LS14	SOIC-14	Hex inverter Schmitt trigger	308849CC	SN74LS14D	.....	.41	.327	.248	198441CC	74LS14M	.....	.37	.299	.227
74LS14	DIP-14	Hex inverter Schmitt trigger	295460CC	SN74LS14N	.....	.41	.328	.248	46640CC	74LS14N*	.....	.37	.299	.227

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi

* 10 pcs. in 74LS series IC cabinet kit, pg 26

** 20 pcs. in 74LS series IC cabinet kit, pg 26

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74LS Series – Low Power Schottky Logic

Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!

 – Save 6-10%

Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100
74LS20	SOIC-14	Dual 4-input NAND gate					
74LS20	DIP-14	Dual 4-input NAND gate	295478CC	SN74LS20N	.31	.209	.202
74LS21	DIP-14	Dual 4-input AND gate	295486CC	SN74LS21N	.24	.191	.175
74LS27	DIP-14	Triple 3-input NOR gate	295494CC	SN74LS27N	.45	.364	.276
74LS30	SOIC-14	8-input NAND gate					
74LS30	DIP-14	8-input NAND gate	295507CC	SN74LS30N	.45	.364	.276
74LS32	SOIC-14	Quad 2-input OR gate	308873CC	SN74LS32D	.45	.364	.276
74LS32	DIP-14	Quad 2-input OR gate	295515CC	SN74LS32N	.31	.28	.248
74LS37	DIP-14	Quad 2-input NAND gate buffer	295558CC	SN74LS37N	.59	.482	.442
74LS38	DIP-14	Quad 2-input NAND gate buffer (O.C.)	295566CC	SN74LS38N	.36	.246	.239
74LS42	DIP-16	BCD-to-decimal decoder/driver	295574CC	SN74LS42N	1.29	.92	.83
74LS47	DIP-16	BCD to 7-seg. decoder/driver (O.C.)	295582CC	SN74LS47N	.77	.58	.539
74LS48	DIP-16	BCD to 7-seg. decoder/driver					
74LS73	DIP-14	Dual JK flip-flop with clear	295700CC	SN74LS73AN	1.09	.96	.77
74LS74	SOIC-14	Dual D flip-flop	308881CC	SN74LS74AD	.45	.364	.276
74LS74	DIP-14	Dual D flip-flop	295726CC	SN74LS74AN	.45	.364	.276
74LS75	SOIC-16	4-bit bi-stable latch					
74LS75	DIP-16	4-bit bi-stable latch	295734CC	SN74LS75N	.95	.89	.82
74LS76	DIP-16	Dual JK flip-flop with preset and clear					
74LS83	DIP-16	4-bit binary full adder					
74LS85	SOIC-16	4-bit magnitude comparator	308902CC	SN74LS85D	.68	.52	.394
74LS85	DIP-16	4-bit magnitude comparator	295742CC	SN74LS85N	.46	.419	.386
74LS86	SOIC-14	Quad Exclusive-OR gate	308911CC	SN74LS86AD	.45	.364	.276
74LS86	DIP-14	Quad Exclusive-OR gate	295751CC	SN74LS86AN	.38	.324	.238
74LS90	SOIC-14	Decade counter					
74LS90	DIP-14	Decade counter	295769CC	SN74LS90N	.53	.486	.421
74LS92	DIP-14	Divide-by-12 counter	295814CC	SN74LS92N	1.15	.98	.74
74LS93	SOIC-14	4-bit binary counter					
74LS93	DIP-14	4-bit binary counter	295822CC	SN74LS93N	.95	.85	.76
74LS95	DIP-14	4-bit parallel-access shift register					
74LS107	DIP-14	Dual JK flip-flop with clear	295865CC	SN74LS107AN	.79	.72	.66
74LS109	SOIC-16	Dual JK pos. edge-trig. flip-flop	309104CC	SN74LS109AD	.65	.491	.373
74LS109	DIP-16	Dual JK pos. edge-trig. flip-flop	295873CC	SN74LS109AN	.65	.64	.497
74LS112	DIP-16	Dual JK neg. edge-trig. flip-flop	300855CC	SN74LS112AN	.43	.328	.248
74LS122	DIP-14	Retrig. mono. multivibrator comm. CLK	300863CC	SN74LS122N	.50	.382	.289
74LS123	SOIC-16	Dual mono. multivibrator with clear	308937CC	SN74LS123D	.50	.382	.29
74LS123	DIP-16	Dual mono. multivibrator with clear	300880CC	SN74LS123N	.50	.382	.289
74LS125	SOIC-14	Quad 3-state buffer	308945CC	SN74LS125AD	.50	.382	.29
74LS125	DIP-14	Quad bus buffer neg. enable tri-state	300901CC	SN74LS125AN	.36	.309	.285
74LS126	SOIC-14	Quad bus buffer tri-state	309121CC	SN74LS126AD	.50	.382	.29
74LS126	DIP-14	Quad bus buffer tri-state	300927CC	SN74LS126AN	.50	.382	.289
74LS132	DIP-14	Quad 2-input NAND Schmitt trigger	300935CC	SN74LS132N	.54	.41	.311
74LS136	DIP-14	Quad EXCLUSIVE-OR gate (O.C.)	301225CC	SN74LS136N	.58	.437	.331
74LS138	SOIC-16	3 to 8 decoder/demultiplexer	308953CC	SN74LS138D	.50	.382	.29
74LS138	DIP-16	3 to 8 decoder/demultiplexer	301233CC	SN74LS138N	.50	.382	.29
74LS139	SOIC-16	2 to 4 decoder/demultiplexer	309147CC	SN74LS139AD	.41	.328	.294
74LS139	DIP-16	2 to 4 decoder/demultiplexer	301268CC	SN74LS139AN	.44	.378	.281
74LS145	SOIC-16	BCD-to-decimal decoder/driver	309163CC	SN74LS145D	.37	.319	.294
74LS145	DIP-16	BCD-to-decimal decoder/driver	301276CC	SN74LS145N	.47	.355	.35
74LS148	DIP-16	8 to 3 priority encoder	301330CC	SN74LS148N	.85	.73	.59
74LS151	SOIC-16	8-input multiplexer					
74LS151	DIP-16	8-input multiplexer	301348CC	SN74LS151N	.50	.382	.29
74LS153	DIP-16	Dual 4-to-1 selector/multiplexer	301532CC	SN74LS153N	.45	.396	.263
74LS154	DIP-24	4 to 16 line decoder/demultiplexer					
74LS155	DIP-16	Dual 2/4 demultiplexer	301559CC	SN74LS155AN	.81	.60	.55
74LS156	DIP-16	Dual 2/4 demultiplexer (O.C.)	301591CC	SN74LS156N	.39	.309	.29
74LS157	SOIC-16	Quad 2/1 data selector	308970CC	SN74LS157D	.33	.282	.258
74LS157	DIP-16	Quad 2/1 data selector	301612CC	SN74LS157N	.50	.382	.29
74LS160	DIP-16	Decade counter with asynch. clear					

Save More! Jameco Value Offering

Now you can save up to 20% off market price! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Renesas product.†

Part No.	Cross Ref.	1	10	100
198459CC	74LS20M	\$.51	\$.44	\$.32
47095CC	74LS20N*	.28	.191	.185
47108CC	74LS21N	.22	.174	.131
47378CC	74LS27N	.41	.31	.233
198467CC	74LS30M	.51	.438	.325
47458CC	74LS30N*	.41	.332	.252
198475CC	74LS32M	.41	.332	.252
47466CC	74LS32N**	.29	.26	.23
47597CC	74LS37N	.54	.46	.34
47693CC	74LS38N	.33	.224	.21
47773CC	74LS42N	.76	.65	.54
47790CC	74LS47N*	.72	.52	.45
47811CC	74LS48N	4.99	4.24	3.18
47992CC	74LS73N*	.37	.338	.238
198491CC	74LS74M	.41	.332	.252
48004CC	74LS74N**	.36	.25	.22
198504CC	74LS75M	.68	.57	.41
48021CC	74LS75N*	.86	.73	.55
48039CC	74LS76N	.69	.62	.55
48063CC	74LS83N	1.49	1.35	1.19
198512CC	74LS85M	\$.70	.62	.437
48071CC	74LS85N*	.42	.382	.353
198521CC	74LS86M	.41	.33	.25
48098CC	74LS86N*	.35	.30	.22
198539CC	74LS90M	.82	.61	.45
48119CC	74LS90N*	.49	.45	.39
48143CC	74LS92N	.99	.76	.63
198547CC	74LS93M	.66	.56	.42
48151CC	74LS93N*	.89	.79	.70
48178CC	74LS95N	1.05	.91	.79
46412CC	74LS107N	.72	.51	.36
309112CC	74LS109M	.59	.448	.34
46421CC	74LS109N	.51	.40	.28
46447CC	74LS112N	.39	.299	.227
46471CC	74LS122N	.46	.35	.27
198555CC	74LS123M	.46	.35	.27
46480CC	74LS123N*	.45	.35	.27
243168CC	74LS125AM	.46	.35	.27
46501CC	74LS125N*	\$.46	.33	.282
309139CC	74LS126AM	.46	.349	.265
46527CC	74LS126N	.37	.345	.253
46551CC	74LS132N	.49	.369	.298
46586CC	74LS136N	.53	.40	.30
198563CC	74LS138M	.46	.349	.269
46607CC	74LS138N**	.45	.35	.26
309155CC	74LS139AM	.37	.299	.265
46623CC	74LS139N*	.41	.35	.26
309171CC	74LS145M	.34	.291	.269
46666CC	74LS145N	.42	.37	.33
46682CC	74LS148N	.79	.68	.55
198571CC	74LS151M	.31	.26	.20
46703CC	74LS151N*	.45	.349	.269
46720CC	74LS153N	.41	.35	.26
46738CC	74LS154N	5.15	4.59	3.69
46754CC	74LS155N*	.64	.54	.405
46762CC	74LS156N	.35	.282	.212
198580CC	74LS157M	.30	.26	.19
46771CC	74LS157N*	.45	.349	.265
46800CC	74LS160N	2.49	2.39	2.29

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi
* 10 pcs. in 74LS series IC cabinet kit, pg 26 * 20 pcs. in 74LS series IC cabinet kit, pg 26

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74LS Series – Low Power Schottky Logic

Save When Purchasing Texas Instruments Products.

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-10% off market prices. And if your project doesn't require a specific brand of IC, select from the functionally equivalent Jameco Value Offering column, to your right, to save up to 20%!

Quantity
SAVE
 – Save 6-10%

Base No.	Package	Description	Part No.	T.I. Product No.	1	10	100	Part No.	Cross Ref.	1	10	100
74LS161	DIP-16	Synch 4-bit counter	301647CC	SN74LS161AN	.50	.382	.29	46818CC	74LS161N	\$.51 .46	\$.349 .265	\$.265
74LS163	DIP-16	Fully synch. 4-bit counter	301663CC	SN74LS163AN	.50	.382	.29	46842CC	74LS163N	\$.51 .46	\$.349 .265	\$.265
74LS164	SOIC-14	8-bit serial shift register	309180CC	SN74LS164D	.50	.414	.373	309198CC	74LS164M	.46	.349	.265
74LS164	DIP-14	8-bit serial shift register	301671CC	SN74LS164N	.47	.382	.29	46851CC	74LS164N	.43	.36	.27
74LS165	DIP-16	8-bit serial shift register, parallel load	301680CC	SN74LS165AN	.45	.364	.275	46877CC	74LS165N	\$.56 .41	\$.33 .252	\$.252
74LS166	DIP-16	8-bit shift register, parallel load	301727CC	SN74LS166AN	.79	.60	.455	46885CC	74LS166N	.71	.54	.41
74LS169	DIP-16	Synch. binary up/down counter	301735CC	SN74LS169BN	.65	.491	.373	46906CC	74LS169N	.61	.47	.35
74LS173	DIP-16	4-bit D-type reg. tri-state	301743CC	SN74LS173AN	.91	.90	.89	46922CC	74LS173N	\$.15 .82	.81	.80
74LS174	DIP-16	Hex D flip-flop with clear	301760CC	SN74LS174AN	.49	.328	.29	46931CC	74LS174N*	.46	.299	.265
74LS175	DIP-16	Quad D flip-flop with clear	301778CC	SN74LS175N	.29	.246	.23	46957CC	74LS175N*	\$.40 .26	.249	.21
74LS181	DIP-24	Arithmetic logic unit/function generator	301786CC	SN74LS181N	4.19	3.54	2.56	46973CC	74LS181N	1.95	1.64	1.11
74LS190	DIP-16	Synchronous up/down counter						46990CC	74LS190N	2.95	2.65	2.55
74LS191	DIP-16	Up/down binary counter	301815CC	SN74LS191N	.58	.482	.455	47001CC	74LS191N	.53	.44	.42
74LS192	DIP-16	Decade up/down counter with clear						47010CC	74LS192N	3.95	3.59	3.25
74LS193	SOIC-16	Binary up/down counter with clear						198598CC	74LS193M	.87	.74	.55
74LS193	DIP-16	Binary up/down counter with clear	301831CC	SN74LS193N	.64	.53	.486	47036CC	74LS193N*	.59	.49	.45
74LS194	DIP-16	4-bit bi-directional shift register	301858CC	SN74LS194AN	.81	.68	.55	47052CC	74LS194N	.74	.63	.50
74LS195	DIP-16	4-bit parallel-access shift register						47061CC	74LS195N	.65	.53	.37
74LS221	SOIC-16	Dual monostable multivibrator	308988CC	SN74LS221D	.79	.65	.59	243176CC	74LS221M	.72	.55	.42
74LS221	DIP-16	Dual mono. multivibrator Schmitt trigger	308283CC	SN74LS221N	.36	.29	.276	47124CC	74LS221N	\$.49 .33	.267	.25
74LS240	SOIC-20	Octal invert. line driver tri-state	309008CC	SN74LS240DW	.58	.437	.331	198619CC	74LS240M	.53	.40	.30
74LS240	DIP-20	Octal invert. line driver tri-state	308291CC	SN74LS240N	.35	.30	.294	47141CC	74LS240N*	\$.39 .32	.27	.20
74LS241	DIP-20	Octal bus/line driver tri-state	308304CC	SN74LS241N	.40	.328	.304	47167CC	74LS241N	.36	.299	.23
74LS244	SOIC-20	Octal driver tri-state	309016CC	SN74LS244DW	.58	.437	.331	198627CC	74LS244M	.53	.398	.302
74LS244	DIP-20	Octal driver tri-state	308312CC	SN74LS244N	.48	.40	.331	47183CC	74LS244N*	.44	.37	.28
74LS245	SOIC-20	Octal bus transceiver tri-state	309024CC	SN74LS245DW	.43	.328	.248	198635CC	74LS245M	\$.44 .39	.299	.227
74LS245	DIP-20	Octal bus transceiver tri-state	308321CC	SN74LS245N	.58	.437	.378	47212CC	74LS245N*	.53	.40	.35
74LS247	DIP-16	BCD to 7-segment decoder/driver (O.C.)	308347CC	SN74LS247N	1.05	.87	.70	47247CC	74LS247N	.94	.80	.62
74LS251	DIP-16	8-channel multiplexer tri-state	308355CC	SN74LS251N	.59	.437	.351	47271CC	74LS251N	.53	.398	.299
74LS257	DIP-16	Quad 2-input multiplexer tri-state	308363CC	SN74LS257BN	.61	.464	.352	47298CC	74LS257N	.56	.423	.322
74LS259	DIP-16	8-bit addressable latch	308371CC	SN74LS259BN	.51	.391	.359	47327CC	74LS259N	.47	.357	.328
74LS266	DIP-14	Quad EXCLUSIVE-NOR gate (O.C.)	308380CC	SN74LS266N	.72	.60	.54	47360CC	74LS266N	.65	.498	.378
74LS273	SOIC-20	Octal D-type flip-flop with clear	309032CC	SN74LS273DW	.58	.437	.331	198643CC	74LS273M	\$.70 .53	.398	.302
74LS273	DIP-20	Octal D-type flip-flop with clear	308398CC	SN74LS273N	.58	.437	.331	47386CC	74LS273N*	.45	.357	.276
74LS279	DIP-16	Quad set-reset latches	308401CC	SN74LS279AN	.55	.428	.368	47407CC	74LS279N	.49	.41	.31
74LS283	DIP-16	4-bit binary full add with fast carry	308435CC	SN74LS283N	.44	.428	.405	47423CC	74LS283N	.40	.36	.27
74LS299	DIP-20	8-bit universal shift/storage register	308427CC	SN74LS299N	.72	.66	.62	47440CC	74LS299N	\$.05 .66	.56	.42
74LS365	DIP-16	Hex buffer with logical OR tri-state	308443CC	SN74LS365AN	.86	.73	.59	47546CC	74LS365N	.77	.66	.54
74LS367	DIP-16	Hex buffer tri-state	308451CC	SN74LS367AN	.44	.355	.331	47562CC	74LS367N	\$.52 .40	.324	.243
74LS368	DIP-16	Hex bus driver w/ tri-state	309278CC	SN74ALS368AN	.42	.364	.34	309286CC	74ALS368AN	.39	.332	.311
74LS373	SOIC-20	Octal D flip-flop tri-state	309041CC	SN74LS373DW	.43	.328	.248	198651CC	74LS373M	\$.51 .39	.299	.227
74LS373	DIP-20	Octal D flip-flop tri-state	308460CC	SN74LS373N	.49	.421	.378	47600CC	74LS373N*	.45	.39	.35
74LS374	SOIC-20	Octal D F/F edge-trig tri-state	309059CC	SN74LS374DW	.58	.437	.331	198660CC	74LS374M	.53	.398	.302
74LS374	DIP-20	Octal D F/F edge-trig tri-state	308478CC	SN74LS374N	.49	.421	.367	47634CC	74LS374N*	.45	.39	.34
74LS377	DIP-20	Octal D register common enable	308486CC	SN74LS377N	.81	.68	.55	47669CC	74LS377N	.31	.20	.15
74LS390	DIP-16	Dual 4-bit decade counter	308494CC	SN74LS390N	.77	.64	.53	47722CC	74LS390N	.69	.59	.44
74LS393	SOIC-16	Dual 4-bit binary counter						243184CC	74LS393M	.79	.60	.45
74LS393	DIP-14	Dual 4-bit binary counter	308507CC	SN74LS393N	.57	.455	.432	47731CC	74LS393N	.52	.44	.33
74LS423	DIP-14	Retrig monostable multivibrator	309294CC	SN74LS423N	1.05	.87	.76	309307CC	74LS423AN	.95	.79	.69
74LS540	DIP-20	Octal invert. buffer/line driver tri-state	308515CC	SN74LS540N	.76	.64	.515	47861CC	74LS540N	\$.89 .69	.59	.44
74LS541	SOIC-20	Octal buffer/line driver tri-state	309227CC	SN74LS541DW	.60	.455	.414	309235CC	74LS541WM	.55	.415	.378
74LS541	DIP-20	Octal buffer/line driver tri-state	308523CC	SN74LS541N	.50	.41	.368	47870CC	74LS541N	.46	.39	.336
74LS573	DIP-20	Octal D-type F/F latch tri-state						64418CC	74LS573N	2.05	1.85	1.55
74LS574	DIP-20	Octal D-type F/F edge-trig tri-state						64426CC	74LS574N	2.15	1.89	1.69
74LS590	DIP-16	8-bit binary counter w/o reg. tri-state	308531CC	SN74LS590N	4.99	4.05	3.65	47909CC	74LS590N	\$.25 4.55	3.65	2.74
74LS595	DIP-16	8-bit serial-to-parallel shift reg. tri-state	308540CC	SN74LS595N	4.99	4.05	3.65	103974CC	74LS595N	4.55	3.65	3.15
74LS645	DIP-20	Octal bus transceiver tri-state	308558CC	SN74LS645-1N	1.79	1.44	1.10	47950CC	74LS645N	1.59	1.31	1.00
74LS682	DIP-20	8-bit magnitude comparator	309251CC	SN74LS682N	1.19	.956	.73	309260CC	74LS682N	1.05	.86	.66
74LS688	DIP-20	8-bit magnitude comparator	308574CC	SN74LS688N	.87	.83	.76	47984CC	74LS688N	\$.88 .80	.68	.51

* Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi

* 10 pcs. in 74LS series IC cabinet kit, pg 26

Standard Logic (Continued)

Color Code Legend
New Sale Qty. Save Refurbished

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

74ALS Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
309868CC	74ALS00AM	SOIC-14	Quad 2-input NAND gate	.22	\$.191	\$.176
245294CC	74ALS00AN	DIP-14	Quad 2-input NAND gate	.39	.30	.23
309905CC	74ALS02AM	SOIC-14	Quad 2-input NOR gate	.31	.274	.202
43959CC	74ALS02N	DIP-14	Quad 2-input NOR gate	.30	.27	.22
309948CC	74ALS04BM	SOIC-14	Hex inverters	.31	.274	.198
245307CC	74ALS04BN	DIP-14	Hex inverters	.38	.33	.23
309972CC	74ALS05AM	SOIC-14	Hex inverters w/ open collector outputs	.31	.274	.202
245286CC	74ALS05AN	DIP-14	Hex inverters w/ open collector outputs	.38	.33	.23
310009CC	74ALS08M	SOIC-14	Quad 2-input AND gate	.31	.274	.198
43983CC	74ALS08N	DIP-14	Quad 2-input AND gate	.28	.25	.21
310025CC	74ALS10AM	SOIC-14	Triple 3-input NAND gate	.27	.257	.227
245315CC	74ALS10AN	DIP-14	Triple 3-input NAND gate	.31	.30	.28
310041CC	74ALS11AM	SOIC-14	Triple 3-input AND gate	.31	.274	.202
245323CC	74ALS11AN	DIP-14	Triple 3-input AND gate	.43	.38	.28
310068CC	74ALS27M	SOIC-14	Triple 3-input NOR gate	.33	.282	.218
63503CC	74ALS27N	DIP-14	Triple 3-input NOR gate	.26	.24	.23
245796CC	74ALS30AN	DIP-14	8-input NAND gate	.39	.30	.23
310084CC	74ALS32M	SOIC-14	Quad 2-input OR gate	.23	.133	.126
44134CC	74ALS32N	DIP-14	Quad 2-input OR gate	.40	.32	.23
310113CC	74ALS74AM	SOIC-14	Dual D-pos. edge trig flip-flops w/ preset & clear	.21	.166	.143
245892CC	74ALS74AN	DIP-14	Dual D-pos. edge trig. flip-flops w/ preset & clear	.39	.30	.23
310156CC	74ALS86M	SOIC-14	Quad 2-input exclusive OR gate	.37	.299	.227
44214CC	74ALS86N	DIP-14	Quad 2-input exclusive OR gate	.40	.32	.23
310199CC	74ALS138M	SOIC-16	3 to 8 line decoder/demultiplexer	.46	.349	.269
309614CC	74ALS138N	DIP-16	3 to 8 line decoder/demultiplexer	.46	.349	.265
310228CC	74ALS139M	SOIC-16	2 to 4 line decoder/demultiplexer	.44	.349	.297
309649CC	74ALS139N	DIP-16	2 to 4 line decoder/demultiplexer	.59	.448	.336
245754CC	74ALS151N	DIP-16	1 of 8 line data selector/multiplexer	.48	.37	.29
309761CC	74ALS161BN	DIP-16	4-bit decade/binary counter	.42	.34	.283
309702CC	74ALS174N	DIP-8	Quad D-type flip-flop w/ clear	.53	.398	.302
309729CC	74ALS175N	DIP-16	Quad D-type flip-flop w/ clear	.52	.398	.302
310261CC	74ALS240AM	SOIC-20	Octal 3-state bus driver	.39	.315	.294
245753CC	74ALS240AN	DIP-20	Octal 3-state bus driver	.49	.38	.29
310295CC	74ALS244AM	SOIC-20	Octal 3-state bus driver	.59	.448	.336
245761CC	74ALS244AN	DIP-20	Octal 3-state bus driver	.53	.41	.30
310332CC	74ALS245AM	SOIC-20	Octal 3-state bus transceiver	.59	.448	.336
245770CC	74ALS245AN	DIP-20	Octal 3-state bus transceiver	.45	.35	.27
44100CC	74ALS251N	DIP-16	3-st. 1 of 8 line data selector/multiplexer	.59	.53	.41
245788CC	74ALS258N	DIP-20	3-st. quad 1 of 2 line data selector/multip. (inverting)	.67	.51	.39
310359CC	74ALS273M	SOIC-20	Octal D-type edge trig flip-flops w/ clear outputs	.71	.60	.454
44118CC	74ALS273N	DIP-20	Octal D-type edge trig. flip-flops w/ clear inputs	.79	.60	.45
310421CC	74ALS373M	SOIC-20	Octal D-type 3-st transparent latches	.59	.448	.34
44142CC	74ALS373N	DIP-20	Octal D-type 3-st. transparent latches	.64	.49	.37
310455CC	74ALS374M	SOIC-20	Octal 3-st D-type edge trig flip-flops	.41	.357	.328
245809CC	74ALS374AN	DIP-20	Octal 3-st. D-type edge trigg. flip-flops	.49	.38	.29
310471CC	74ALS520M	SOIC-20	8-bit comparator	1.12	.90	.77
245817CC	74ALS520N	DIP-20	8-bit comparator	1.12	.95	.76
245825CC	74ALS521N	DIP-20	8-bit comparator	1.37	1.16	.82
245833CC	74ALS533N	DIP-20	Octal D-type transparent latches w/ 3-st. outputs	1.21	1.02	.73
310535CC	74ALS540M	SOIC-20	Octal inverting buffers & line driver w/ 3-st outputs	1.22	1.08	.87
245841CC	74ALS540N	DIP-20	Octal inverting buffers & line driv. w/ 3-st. outputs	.80	.67	.54
310551CC	74ALS541M	SOIC-20	Octal buffers and line drivers w/ 3-st outputs	.74	.62	.504

74LS Series IC Kit

Includes:
20-drawer component cabinet (319599CC),
20 clear plastic drawers (319601CC),
20 clear dividers (319610CC), pg 131 and
30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30,
74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90
74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174,
74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374
20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.)	1	10
84961CC	420 pcs. 74LS IC kit	6.7	\$119.95	\$107.95
130391CC	Refill for 84961CC (420 pcs.)	2.0	99.99	89.99

74ALS Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
245850CC	74ALS541N	DIP-20	Octal buffers & line drivers w/ 3-st. outputs ..	\$.79	\$.67	\$.55
310578CC	74ALS573BMDIP-20		Octal D-type transp. latch w/ 3-st. outputs	.59	.448	.336
245868CC	74ALS573BN	DIP-20	Octal D-type transp. latch w/ 3-st. outputs	.43	.36	.29
310623CC	74ALS574AM	SOIC-20	Octal D-type edge trigg flip-flops w/ 3-st outputs	.59	.448	.336
245876CC	74ALS574AN	DIP-20	Octal D-type edge trigg flip-flops w/ 3-st. outputs	.43	.39	.36
310640CC	74ALS645AM	SOIC-20	Octal bus transceivers .....	.74	.60	.546
245884CC	74ALS645AN	DIP-20	Octal bus transceivers .....	.98	.83	.67
309796CC	74ALS688N	DIP-20	8-bit identity comparator	2.95	2.39	1.88

Jameco's 3.3 Volt Logic

74LVC Series

For 3.3V power Supplies. This 3.3V logic series is offered in both 8 and 16-bit functions.

Part No.	Cross Ref.	Pkg.	Description	1	10	100
313429CC	74LVC00AD	SOIC-14	Quad 2-input NAND gate	\$.38	\$.299	\$.21
313470CC	74LVC04AD	SOIC-14	Hex inverter	.38	.307	.21
313488CC	74LVC08AD	SOIC-14	Quad 2-input AND gate	.38	.307	.21
313496CC	74LVC14AD	SOIC-14	Hex inverter w/ schmitt trigger	.38	.307	.21
313517CC	74LVC32AD	SOIC-14	Quad 2-input OR gate	.38	.307	.21
313533CC	74LVC74AD	SOIC-14	Dual D-type flip-flop w/ set/reset	.38	.299	.21
313576CC	74LVC125AD	SOIC-14	Quad bus buffer w/ 3-st	.27	.216	.185
313613CC	74LVC138AD	SOIC-16	3-to-8 line decoder/demultiplexer	.37	.299	.227
313621CC	74LVC157AD	SOIC-16	2-to-1 line decoder/demultiplexer	.37	.299	.227
313648CC	74LVC244AD	SOIC-20	Octal buffer/driver w/ 3-st	.41	.332	.252
313630CC	74LVC245AD	SOIC-20	4-bit sync binary counter	.41	.332	.252
313584CC	74LVC374AD	SOIC-20	Octal D-type flip-flop w/ 3-st	.41	.332	.252
313541CC	74LVC541AD	SOIC-20	Octal buffer/driver w/ 3-st	.41	.332	.305
313461CC	74LVC573AD	SOIC-20	Octal D-type latch w/ 3-st	.41	.332	.252
313824CC	74LVC574AD	SOIC-20	Octal D-type flip-flop w/ 3-st	.41	.332	.252
313947CC	74LVC16244AT	TSSOP-48	16-bit buffer/driver w/ 3-st	.95	.79	.71
313955CC	74LVC16245AT	TSSOP-48	16-bit bus transceiver w/ 3-st	.95	.79	.71
313963CC	74LVC16244AT	TSSOP-48	16-bit buffer/driver w/ 3-st	.95	.79	.64

74ALVC Series

Ideal for Memory Interfacing. This 3.3V logic series is offered in both 8 and 16-bit functions.

Part No.	Cross Ref.	Pkg.	Description	1	10	100
313980CC	74ALVC00D	SOIC-14	Quad 2-input NAND gate	\$.33	\$.266	\$.202
314309CC	74ALVC00T	TSSOP-14	Quad 2-input NAND gate	.33	.265	.202
314000CC	74ALVC04D	SOIC-14	Hex inverter	.33	.266	.202
314229CC	74ALVC08D	SOIC-14	Quad 2-input AND gate	.33	.266	.202
314341CC	74ALVC08T	TSSOP-14	Quad 2-input AND gate	.33	.265	.20
314237CC	74ALVC32D	SOIC-14	Quad 2-input OR gate	.33	.266	.205
314333CC	74ALVC32T	TSSOP-14	Quad 2-input OR gate	.37	.29	.227
314253CC	74ALVC125	SOIC-14	Quad bus buffer w/ 3-state	.43	.324	.244
314405CC	74ALVC244T	TSSOP-14	Octal buffer/driver w/ 3-state	.44	.332	.261
314421CC	74ALVC245DW	SOIC-20	Octal bus transceiver w/ 3-state	.44	.336	.262
314430CC	74ALVC245T	TSSOP-20	Octal bus transceiver w/ 3-state	.44	.336	.261
314456CC	74ALVCH16244T	TSSOP-48	16-bit buffer/driver w/ 3-state	1.04	.84	.64
314499CC	74ALVCH16245T	TSSOP-48	16-bit buffer/driver w/ 3-state	1.04	.84	.64
314528CC	74ALVCH16373T	TSSOP-48	16-bit D-type latch w/ 3-state	1.04	.84	.64
314595CC	74ALVCH16374T	TSSOP-48	16-bit D-type flip-flop w/ 3-state	1.04	.84	.64
314616CC	74ALVCH162244T	TSSOP-48	16-bit buffer/driver w/ 3-state	1.05	.99	.90
314624CC	74ALVCH162374T	TSSOP-48	16-bit D-type flip-flop w/ 3-state	1.05	.99	.90
314632CC	74ALVCH164245T	TSSOP-20	16-bit level-shifting transceiver	1.12	.95	.77

4000 Series

Part No.	Cross Ref.	Pkg.	Description	1	10	100
12562CC	CD4001N**	DIP-14	Quad 2-input NOR gate	\$.29	\$.24	\$.19
197261CC	CD4001M	SOIC-14	Quad 2-input NOR gate	.28	.23	.18
12597CC	CD4007N	DIP-14	Dual comp. pair with inverter	.29	.25	.22
12634CC	CD4011N**	DIP-14	Quad 2-input NAND gate	.29	.24	.19
197270CC	CD4011M	SOIC-14	Quad 2-input NAND gate	.22	.208	.193
12677CC	CD4013N**	DIP-14	Dual D flip-flop with set/reset	.35	.25	.22

**20 pcs. in 4000 series IC cabinet kit, pg 27

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

4000 Series (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
197288CC	CD4013M	SOIC-14	Dual D flip-flop with set/reset	.30	.26	\$.195
12706CC	CD4015N*	DIP-16	Dual 4-stage static shift register	.45	.37	.28
12722CC	CD4016N*	DIP-14	Quad bilateral switch	.28	.24	.18
12749CC	CD4017N*	DIP-16	Decade counter/divider	.39	.35	.31
197296CC	CD4017M	SOIC-16	Decade counter/divider	.56	.45	.33
12773CC	CD4018N	DIP-16	Presetttable divide-by-N counter	.30	.25	.23
12802CC	CD4020N*	DIP-16	14-stage binary/ripple counter	.49	.39	.29
197309CC	CD4020M	SOIC-16	14-stage binary/ripple counter	.62	.49	.36
12829CC	CD4021N	DIP-16	8-stage static shift register	.40	.34	.23
54666CC	CD4022N	DIP-16	Div. by 8-cntr./driver w/ 8-decoded outputs	.32	.27	203
12845CC	CD4023N*	DIP-14	Triple 3-input NAND gate	.28	.23	.16
12853CC	CD4024N*	DIP-14	7-stage binary counter	.32	.27	.18
12888CC	CD4027N*	DIP-16	Dual JK master-slave flip-flop	.27	.22	.16
197317CC	CD4027M	SOIC-16	Dual JK master-slave flip-flop	.41	.35	26
12909CC	CD4028N	DIP-16	BCD-to-decimal decoder	.29	.22	.19
12925CC	CD4029N	DIP-16	Presetttable up/down counter	.32	.27	.18
197325CC	CD4029M	SOIC-16	Presetttable up/down counter	.40	.34	26
12950CC	CD4040N*	DIP-16	12-stage binary/ripple counter	.32	.27	.18
197333CC	CD4040M	SOIC-16	12-stage binary/ripple counter	.56	.47	.34
12984CC	CD4042N	DIP-16	Quad clocked D latch	.25	.213	159
12992CC	CD4043N	DIP-16	Quad NOR R-S latch tri-state	.31	.26	.20
13004CC	CD4044N	DIP-16	Quad 3-state NAND R-S latch tri-state	.33	.28	21
13012CC	CD4046N*	DIP-16	Micropower phase-locked loop	.30	.27	.23
13039CC	CD4047N	DIP-14	Monostable/astable multivibrator	.30	.25	.22
13055CC	CD4049N**	DIP-16	Hex/buffer/converter (inverting)	.29	.24	.21
197341CC	CD4049M	SOIC-16	Hex/buffer/converter (inverting)	.33	.28	21
13071CC	CD4050N*	DIP-16	Hex/buffer/converter (N-inverting)	.25	.21	.19
197350CC	CD4050M	SOIC-16	Hex/buffer/converter (N-inverting)	.38	.30	.23
13098CC	CD4051N*	DIP-16	Single 8-channel multi./demultiplexer	.45	.39	.35
197368CC	CD4051M	SOIC-16	Single 8-channel multi./demultiplexer	.30	.255	191
13119CC	CD4052N	DIP-16	Diff. 4-channel multi./demultiplexer	.30	.24	.17
13127CC	CD4053N	DIP-16	Triple 2-channel multi./demultiplexer	.41	.34	25
13151CC	CD4060N	DIP-16	14-stage ripple-carry binary	.41	.33	.25
13186CC	CD4066N**	DIP-14	Quad bilateral switch	.35	.25	.19
197376CC	CD4066M	SOIC-14	Quad bilateral switch	.27	.20	.13
13215CC	CD4067N	DIP-24	16-channel analog multi./demultiplexer	.74	.63	.50
13231CC	CD4069N*	DIP-14	Hex inverter (74C04)	.30	.24	.17
197384CC	CD4069M	SOIC-14	Hex inverter (74C04)	.29	.21	.14
13258CC	CD4070N*	DIP-14	Quad EXCLUSIVE-OR gate (74C86)	.28	.24	.17
87847CC	CD4070M	SOIC-14	Quad EXCLUSIVE-OR gate	.28	.24	.17
13274CC	CD4071N*	DIP-14	Quad 2-input OR gate	.28	.238	179
197392CC	CD4071M	SOIC-14	Quad 2-input OR gate	.30	.24	.17
13354CC	CD4081N*	DIP-14	Quad 2-input AND gate	.28	.26	.24
197405CC	CD4081M	SOIC-14	Quad 2-input AND gate	.35	.30	.22
13400CC	CD4093N*	DIP-14	Quad 2-input NAND Schmitt trigger	.29	.25	.19
197413CC	CD4093M	SOIC-14	Quad 2-input NAND Schmitt trigger	.30	.26	19
13426CC	CD4094N	DIP-16	8-stage shift-and-store bus register	.41	.37	.31
13434CC	CD4098N	DIP-16	CMOS/MOS dual mono. multivibrator	.38	.32	24
13442CC	CD4099N	DIP-16	8-bit addressable latch	.30	.27	.24
13469CC	CD4503N	DIP-16	Tri-state hex buffer (74C367) 80C97	.28	.24	18
13485CC	CD4510N	DIP-16	BCD up/down counter	.39	.30	.23
13493CC	CD4511N*	DIP-16	BCD to 7-seg. latch/decoder/driver	.69	.59	.49

*10 pcs. in 4000 series IC cabinet kit, below **20 pcs. in 4000 series IC cabinet kit, below

4000 Series CMOS IC Kit

Includes:

20-drawer component cabinet (319599CC),
20 clear plastic drawers (319601CC),
20 clear dividers (319610CC), pg 131 and
30 adhesive labels for drawers to identify parts in kit10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024,
CD4027, CD4040, CD4046, CD4050, CD4051, CD4069,
CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584
20 each: CD4001, CD4011, CD4013, CD4049, CD4056

Part No.	Description	Wt. (lbs.)	1	10
84970CC	300 pcs. 4000 series CMOS IC kit	6.1	\$79.95	\$71.95
130403CC	Refill for 84970CC (300 pcs.)	1.4	58.95	52.95

4000 Series (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
197421CC	CD4511M	SOIC-16	BCD to 7-seg. latch/decoder/driver	\$.44	\$.37	\$.28
13514CC	CD4512N	DIP-16	8-channel data selector	.34	.30	.27
13522CC	CD4514N	DIP-24	4-bit latch/4-16 line decoder	.89	.80	.71
13549CC	CD4516N	DIP-16	Binary up/down counter	.50	.40	.30
13565CC	CD4518N	DIP-16	Dual BCD up counter	.26	.25	.23
13581CC	CD4520N	DIP-16	Dual binary up counter	.33	.28	21
13590CC	CD4522N	DIP-16	Program. BCD divide-by-N counter	.89	.80	.71
13602CC	CD4526N	DIP-16	Divide-by-N counter (binary)	.34	.31	.25
13611CC	CD4528N	DIP-16	Dual monostable multivibrator	.86	.73	55
13653CC	CD4538N*	DIP-16	Dual precision monostable multivibrator	.59	.49	.34
197430CC	CD4538M	SOIC-16	Dual precision monostable multivibrator	.57	.44	.34
13688CC	CD4541N	DIP-14	Oscillator/programmable timer	.25	.22	.17
13696CC	CD4543N*	DIP-16	BCD to 7-segment decoder (LCD)	.59	.45	.29
13709CC	CD4553N	DIP-16	3-digit BCD counter	2.95	2.75	2.49
13768CC	CD4584N*	DIP-14	Hex Schmitt trigger (74C14) 40106	.39	.35	.29
197448CC	CD4584M	SOIC-14	Hex Schmitt trigger (74C14) 40106	.30	.28	.27
44257CC	CD40106N	DIP-14	Hex inverter Schmitt trigger (74C14)	.49	.465	.288

*10 pcs. in 4000 series IC cabinet kit, below **20 pcs. in 4000 series IC cabinet kit, below

7400 Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
48979CC	7400N**	DIP-14	Quad 2-input NAND gate	\$.65	\$.55	\$.45
49007CC	7401N	DIP-14	Quad 2-input NAND gate (O.C.)	.59	.57	.54
49015CC	7402N*	DIP-14	Quad 2-input NOR gate	.68	.56	.45
49040CC	7404N**	DIP-14	Hex inverter	.59	.49	.45
49074CC	7405N*	DIP-14	Hex inverter (O.C.)	.69	.54	38
49091CC	7406N**	DIP-14	Hex inverter buffer/driver (O.C.)	.52	.45	.40
49120CC	7407N**	DIP-14	Hex buffer/driver (O.C.)	.40	.37	.32
49146CC	7408N*	DIP-14	Quad 2-input AND gate	.82	.63	.48
49189CC	7410N*	DIP-14	Triple 3-input NAND gate	.40	.36	.25
295777CC	7411N	DIP-16	Triple 3-input AND gate	.99	.89	.80
49402CC	7413N	DIP-14	Dual 4-input NAND gate Schmitt trigger	1.05	.89	66
49437CC	7414N*	DIP-14	Hex inverter Schmitt trigger	.59	.54	.50
49630CC	7416N*	DIP-14	Hex inverter buffer/driver (O.C.)	.52	.44	33
49728CC	7417N*	DIP-14	Hex buffer/driver (O.C. hi-voltage)	.91	.77	58
50008CC	7420N*	DIP-14	Dual 4-input NAND gate	.56	.52	.45
50083CC	7425N	DIP-14	Dual 4-input NOR gate with strobe	.78	.75	.72
50139CC	7427N	DIP-14	Triple 3-input NOR gate	.68	.58	43
50198CC	7428N	DIP-14	Quad 2-input NOR buffer	.76	.65	48
50235CC	7432N*	DIP-14	Quad 2-input OR gate	.74	.64	.56
50315CC	7438N*	DIP-14	Quad 2-input NAND buffer (O.C.)	.70	.60	46
50358CC	7440N	DIP-14	Dual 4-input NAND buffer	.55	.47	35
50374CC	7442N	DIP-16	BCD-to-decimal decoder	1.29	1.02	.84
50403CC	7445N	DIP-16	BCD-to-decimal decoder/driver	1.19	1.05	.91
50411CC	7446N	DIP-16	BCD-to-7 segment decoder/driver	2.09	1.95	1.89
50420CC	7447N*	DIP-16	BCD-to-7 segment decoder/driver	1.49	1.29	.99
50518CC	7470N*	DIP-14	Edge-triggered JK flip-flop	.81	.69	52
50526CC	7472N	DIP-14	AND gated JK master/slave flip-flop	2.25	1.91	1.43
50534CC	7473N	DIP-14	Dual JK flip-flop with clear	.99	.86	.68
50551CC	7474N**	DIP-14	Dual D flip-flop	.59	.49	.39
50577CC	7475N	DIP-16	4-bit bi-stable latch	2.95	2.75	2.49
50593CC	7476N	DIP-16	Dual JK flip-flop with preset and clear	1.49	1.41	1.37
50631CC	7483N	DIP-16	4-bit binary full adder	1.05	.91	.79
50657CC	7485N*	DIP-16	4-bit magnitude comparator	.93	.76	56
50227CC	7430N*	DIP-14	8-input NAND gate	.56	.48	36
50665CC	7486N	DIP-14	Quad EXCLUSIVE-OR gate	1.05	.85	.64
50681CC	7489N	DIP-16	64-bit RAM P 50ns	3.49	3.19	2.99
50690CC	7490N	DIP-14	Decade counter	1.49	1.27	95
50737CC	7492N	DIP-14	Divide-by-12 counter	1.49	1.29	95
50745CC	7493N	DIP-14	4-bit binary counter	1.49	1.34	1.19
50770CC	7495N*	DIP-14	4-bit parallel-access shift reg. (K155N)	.91	.78	.52
50796CC	7497N	DIP-16	Synch. 6-bit binary rate multipliers	2.49	2.11	1.55
49234CC	74107N*	DIP-14	Dual JK flip-flop with clear	.45	.38	28
49293CC	74116N	DIP-24	Dual 4-bit latches with clear	1.55	1.32	99

*10 pcs. in 7400 series IC cabinet kit, pg 28 **20 pcs. in 7400 series IC cabinet kit, pg 28

Standard Logic (Continued) and Interface



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

7400 Series (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
49322CC	74121N	DIP-14	Monostable multivibrator	\$1.15	\$1.05	\$.91
49349CC	74122N	DIP-14	Retriggerable mono. multivibrator w/ clear ...	1.02	1.00	.98
49357CC	74123N*	DIP-16	Dual retriggerable mono. multivibrator	1.05	1.09	.90
49373CC	74125N	DIP-14	Quad bus buffer tri-state (DM8093N)	1.11	.99	.86
49411CC	74132N*	DIP-14	Quad 2-input NAND Schmitt trigger	1.29	.99	.70
49496CC	74148N	DIP-16	8 to 3 line octal priority encoder	1.24	1.05	(.79)
49509CC	74150N	DIP-24	16 to 1 line multiplexer	1.95	1.75	1.55
49525CC	74151N*	DIP-16	8-input multiplexer .....	.65	.55	(.41)
49550CC	74153N*	DIP-16	Dual 4/1 data selector/multiplexer .....	.76	.56	(.39)
49568CC	74154N	DIP-24	4 to 16 line decoder/demultiplexer	2.25	1.95	1.75
49605CC	74157N*	DIP-16	Quad 2/1 data selector .....	.88	.72	(.51)
49648CC	74160N*	DIP-16	Decade counter with asynch. clear	\$.56 .45	.40	.36
49664CC	74161N	DIP-16	Synchronous 4-bit counter .....	.70	.63	.50
49672CC	74163N	DIP-16	Synchronous 4-bit counter .....	.81	.69	(.52)
49681CC	74164N	DIP-14	8-bit serial shift register .....	.85	.72	(.54)
49699CC	74165N	DIP-16	8-bit serial shift register, parallel load .....	.99	.84	(.63)
49779CC	74174N*	DIP-16	Hex D-type flip-flop with clear .....	.99	.84	(.63)
49795CC	74175N*	DIP-16	Quad D-type flip-flop with clear .....	.85	.72	(.54)
49832CC	74180N	DIP-14	9-bit odd/even parity generator/checker ...	2.89	2.46	(1.84)
49841CC	74181N	DIP-24	Arithmetic logic unit/function generator ...	3.29	2.96	2.66
49883CC	74189N	DIP-16	64-bit RAM tri-state (DM8599N)	3.39	2.89	(2.17)
49904CC	74191N	DIP-16	Binary up/down counter	1.85	1.57	(1.18)
49912CC	74192N	DIP-16	Decade up/down counter with clear	3.69	3.39	3.19
49939CC	74193N	DIP-16	Binary up/down counter with clear	1.85	1.59	1.45
49955CC	74194N	DIP-16	4-bit bi-directional shift register	1.59	1.35	(1.01)
49963CC	74195N	DIP-16	4-bit parallel-access shift register	1.65	1.40	(1.05)
50171CC	74279N*	DIP-16	Quad set-reset latch	1.79	1.52	(1.14)
88225CC	SDL001A	—	Texas Instruments TTL Data Book	34.95	31.49	29.95

*10 pcs. in 7400 series IC cabinet kit, below

7400 Series IC Kit

Includes:

20-drawer component cabinet (319599CC),
20 clear plastic drawers (319601CC),
20 clear dividers (319610CC), pg 131 and
30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420,
7430, 7432, 7438, 7447, 7470, 7485, 7495, 74107,
74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279

20 each: 7400, 7404, 7406, 7407, 7474

Part No.	Description	Wt. (lbs.)	1	10
84953CC	350 pcs. 7400 IC kit	6.2	\$149.95	\$134.95

SAVE \$96



74C Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
44222CC	74C00N	DIP-14	Quad 2-input NAND gate	\$1.05	\$.89	(.67)
44231CC	74C04N	DIP-14	Hex inverter (CD4069)	1.05	.89	(.67)
44257CC	74C14N	DIP-14	Hex inverter Schmitt trigger (CD40106) .....	.49	.465	.288
44441CC	74C74N	DIP-14	Dual D flip-flop	1.69	1.44	(1.08)
44361CC	74C221N	DIP-16	Dual monostable multivibrator	3.69	3.19	2.50
13469CC	74C367N	DIP-16	Hex buffer tri-state (80C97/CD4503) .....	.28	.24	(.18)
44396CC	74C373N	DIP-20	Octal D-type flip-flop with clear tri-state ...	3.85	3.11	2.44
44409CC	74C374N	DIP-20	Octal D-type flip-flop tri-st. (INS82C06N) ..	2.15	1.83	(1.37)
44564CC	74C922N	DIP-18	16-key keyboard encoder (INS8245N)	6.29	5.79	5.69
44572CC	74C923N	DIP-20	20-key keyboard encoder (INS8246N)	5.99	5.09	3.86
44581CC	74C925N	DIP-16	4-digit CTR w/ MUX D segment driver	14.15	12.05	(9.05)
44599CC	74C926N	DIP-18	4-digit CTR w/ MUX D segment driver	8.69	7.85	7.09

74S Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
48531CC	74S188N	DIP-16	256-bit (32 x 8) PROM O.C. (27S18)	\$4.39	\$3.95	\$3.45
48557CC	74S189N	DIP-16	64-bit (16 x 4) RAM tri-state (27S03)	3.99	3.90	3.86
48696CC	74S287N	DIP-16	1k-bit (256 x 4) PROM tri-state (TBP24S10) ..	8.95	7.85	7.09
48717CC	74S288N	DIP-16	256-bit (32 x 8) PROM tri-st. (TBP18S030N) ..	7.39	6.39	5.49
48805CC	74S387N	DIP-16	1k-bit (256 x 4) PROM O.C. (TBP24SA10N) ...	3.09	3.05	3.00

74S Series (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
52513CC	74S428N	DIP-28	System contr./bus driver (8228)	\$3.69	\$3.19	\$2.36
48864CC	74S472N	DIP-20	4k-bit (512 x 8) PROM tri-st. (TBP28S42N) ..	12.95	11.65	10.49
48910CC	74S571N	DIP-16	2k-bit (512 x 4) PROM tri-st. (AM27S13)	5.69	5.49	5.29
48928CC	74S573N	DIP-18	4k-bit (1024 x 4) PROM tri-st. (53S441J)	3.39	2.89	2.59

9000 Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
53663CC	9368	DIP-16	7 segment driver/latch	\$4.49	\$3.95	\$3.55
10567CC	AM9513APC	DIP-40	System timing counter	39.95	35.95	31.85



Part No.	Product No.	Pkg.	Description	1	10	100
114198CC	DS1210	DIP-8	Nonvolatile controller chip	\$4.19	\$3.37	\$2.07
114219CC	DS1213C	DIP-28	SmartSocket 64K/256k	19.99	15.55	11.75
133410CC	DS1216C	DIP-28	Smartwatch/RAM 64K/256k	31.89	27.69	19.99
114331CC	DS1232	DIP-8	Micromonitor chip	2.05	1.56	1.21
133444CC	DS1286	DIP-28	Watchdog timekeeper (50-Byte RAM)	23.95	18.25	12.70
76646CC	DS1287	DIP-24	Real time clock with RAM (MC146818A) ..	7.25	6.15	(4.59)
176778CC	DS1302	DIP-8	Trickle charge time keeping IC	2.75	2.10	1.28
114374CC	DS1387	DIP-24	RAMified real time clock 4k x 8	8.59	7.99	7.25
114382CC	DS1620	DIP-8	Digital thermometer and thermostat	6.29	5.05	3.49
245500CC	DS1705ESA	SOIC-8	3.3V and 5V micromonitor	1.99	1.48	1.09
282749CC	DS1708ESA	SOIC-8	3.3V and 5V micromonitor	2.05	1.55	1.19
133452CC	DS12887	DIP-24	Real time clock chip	8.15	6.25	3.99
299997CC	DS12887A	DIP-24	Real time clock chip	8.15	6.22	4.15
114403CC	DS80C320-MCG	DIP-40	High speed micro 25MHz	13.15	10.42	6.25

MPU Supervisory

Package (see pg 29)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
106219CC	+	MAX690CPA	DIP-8	Microprocessor watchdog/battery	\$5.99	\$5.05	\$3.13
106227CC	+	MAX691CPE	DIP-16	Microprocessor watchdog/battery ...	6.25	4.21	(3.16)
288403CC	+	MAX693CPE	DIP-16	Microprocessor watchdog/battery ...	6.49	3.86	3.22
297684CC	MAX	MAX694CPA	DIP-8	Microprocessor supervisory circuit	6.59	3.86	3.26
297748CC	MAX	MAX695CPE	DIP-16	Low cost MPU supervisory circuit ..	7.15	5.82	5.24
312418CC	MAX	MAX699CPA	DIP-8	Low-cost power on reset & watchdog ..	4.15	3.46	3.28
243627CC	+	MAX705CPA	DIP-8	MPU supervisory circuit	4.95	3.79	2.46
243635CC	+	MAX705CSA	SOIC-8	Low cost MPU supervisory circuit ..	4.59	4.10	2.45
297705CC	MAX	MAX706CPA	DIP-8	Low cost MPU supervisory circuit ..	4.99	3.99	3.59
251774CC	MAX	MAX707CPA	DIP-8	Low cost MPU supervisory circuit ..	4.15	3.48	2.20
251758CC	MAX	MAX707CSA	SOIC-8	Low cost MPU supervisory circuit ..	4.29	3.59	2.50
298020CC	+	MAX734CPA	DIP-8	12V, 120mA flash memory prog.	3.69	3.49	3.32
298046CC	+	MAX734CSA	SOIC-8	12V, 120mA flash memory prog.	4.69 2.55	2.21	2.07
266861CC	+	MAX809T	SOT-23	3-pin microprocessor reset circuit ..	.50	.38	.29
245391CC	+	MAX810S	SOT-23	3-pin microprocessor reset circuit ..	\$.80 .69	.69	.66
245497CC	MAX	MAX813LCSA	SOIC-8	Low cost MPU supervisory circuit ..	2.99	2.55	1.77
106260CC	+	MAX1232CPA	DIP-8	Microprocessor monitor	3.09	2.45	1.67
282677CC	+	DS1233-5	SOT-223	5V econoreset, CPU supervisory	1.25	.91	.74
290221CC	+	DS1233D-5	TO-92	5V econoreset, CPU supervisory	1.25	1.05	.99
282651CC	+	DS1233M-5	TO-92	5V econoreset, CPU supervisory	1.15	1.00	.90
282685CC	+	DS1233-10	TO-92/4	5V econoreset, CPU supervisory	1.25	1.10	.99
313971CC	ANA	AP1701DW	SOT-23	3-pin microprocessor reset circuit ....	.72	.545	.40
313939CC	ANA	AP1702DW	SOT-23	3-pin microprocessor reset circuit ....	.54	.325	.305
310316CC	MAX	DS1708SESA	SOIC-8	3.3V micromonitor	1.85	1.47	1.38
298089CC	MAX	DS1811-5	TO-92	5V econoreset w/ open drain output ..	.99	.69	.60
298118CC	MAX	DS1811-10	TO-92	5V econoreset w/ open drain output ..	1.01	.68	.63
298100CC	MAX	DS1811-15	TO-92	5V econoreset w/ open drain output ..	.99	.75	.73
309930CC	NSC	LM3722EM5-4.63	SOT-23	5-pin microprocessor reset circuit ..	2.55	1.90	1.60
309913CC	NSC	LM3722IM5-3.08	SOT-23	5-pin microprocessor reset circuit ..	2.15	1.61	1.34

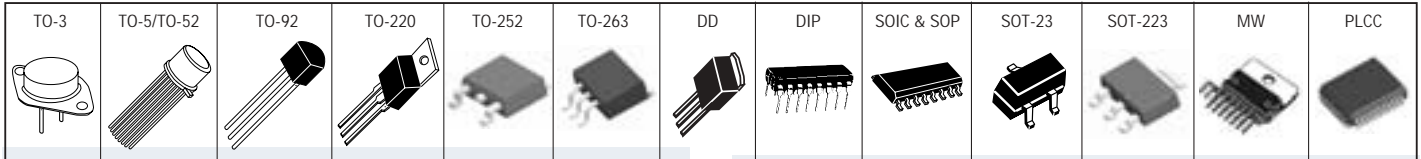
Power Management



Package (see pg 29)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	25
291670CC	+	MAX712CPE	DIP-16	NI/CD/NIMH battery fast chrg cntrlr	\$6.99	\$5.36
312979CC	+	NCP1800DM4R2	SOIC-8	Li-Ion battery charger	1.59	1.47
312821CC	+	BQ2003S	SOIC-16	Fast Charge IC	4.49	3.65

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Power Management (Continued)



Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	25
312848CC	+	BQ2004PN	DIP-16	NiMH/NiCd switchmode charge mgmt w/ neg dV.....	\$4.49	\$3.79
312830CC	+	BQ2004SN	SOIC-16	NiMH/NiCd switchmode charge mgmt w/ neg dV.....	4.49	3.79
312901CC	+	BQ2010SN-D107	SOIC-16	Gas Gauge IC	6.99	6.47
312899CC	+	BQ2013HSN-A514	SOIC-16	Gas Gauge IC	6.75	6.25
312856CC	+	BQ2014SN-D120	SOIC-16	NiMH/NiCd gas gauge w/ 1-wire (DO) i/f	6.99	6.47
312928CC	+	BQ2018TS-E1	TSSOP-8	Rechargeable battery power monitor	3.89	3.29
312936CC	+	BQ2019PW	TSSOP-8	Rechargeable battery power monitor	3.99	3.35
312881CC	+	BQ2040SN-D111	SOIC-16	Li-Ion/NiMH/NiCd gas gauge w/ smbus	6.99	6.47
312961CC	+	UC3906N	DIP-16	Linear lead acid battery charger	4.99	4.49
312944CC	+	BQ24004PWP	TSSOP-20	Li-Ion battery charger	3.69	3.10
312952CC	+	TPS65010RGZR	QFN-48	Li-Ion battery charger w/ USB + 12C	7.05	6.67
241808CC	+	ICL7665SCPA	DIP-8	2-16V voltage detector	2.45	2.20
241816CC	+	ICL7673CPA	DIP-8	Auto battery backup switch, 2.5V to 15V	1.05	.93

RS-232 Drivers/Receivers



Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
142535CC	+	HIN202CP	DIP-16	+5V RS-232 trans. requires 0.1µf caps	\$2.65	\$2.10	\$1.36
244232CC	+	MAX202CSE	SOIC-16	+5V RS-232 trans. w/ 0.1µf ext. caps	1.55	1.25	1.15
244241CC	+	MAX202EPE	DIP-16	+5V RS-232 transceivers	1.13	.99	.88
244259CC	+	MAX202ESE	SOIC-16	+5V RS-232 trans. w/ 0.1µf ext. caps ..	1.13	.99	.88
299794CC	MAX	MAX207CWG	SOIC-24	RS-232 transceivers w/ 0.1µf ext. cap	3.65	2.77	2.00
282790CC	+	MAX211CAI	SSOP-28	+5V RS-232 trans. w/ 0.1µf ext. caps ..	6.59	5.04	3.46
312215CC	+	MAX211ECAI	SSOP-28	+5V RS-232 trans., ±15kV ESD	8.05	5.25	4.14
291215CC	+	MAX222CPN	DIP-18	+5V multichannel RS-232 drivers/recvr ..	3.49	3.39	3.18
291303CC	+	MAX222CVN	SOIC-18	+5V multichannel RS-232 drivers/recvr ..	3.89	3.09	2.08
24811CC	+	MAX232CPE*	DIP-16	Dual RS-232 receiver/transmitter	2.19	1.85	1.45
318959CC	MAX	MAX232CPE	DIP-16	Dual RS-232 receiver/transmitter	2.89	1.77	1.49
106147CC	+	MAX232CWE	SOIC-16	+5V dual RS-232 trans./receiver	2.75	2.10	1.36
256401CC	+	MAX232DR	SOIC-16	Dual EIA-232 driver/receiver	\$2.99	.76	.66
106155CC	+	MAX232EPE	DIP-16	+5V dual RS-232 (-40°C to +85°C)	3.29	2.52	1.63
106163CC	+	MAX233CPP	DIP-20	+5V multichannel RS-232 driver/recr.	6.19	4.99	4.66
106171CC	+	MAX235CPG	DIP-24	+5V five RS-232 driver/receiver	13.39	10.51	6.75
106180CC	+	MAX238CNG	DIP-24	+5V quad RS-232 driver/receiver	6.29	4.79	3.28
276883CC	+	MAX323CDWR	SOIC-28	True 3V-5.5V RS-232 trans. w/ autoshtdwn ..	1.69	1.61	1.45
193691CC	+	DS1488D	SOIC-14	Quad line driver RS-232 (75188D) .....	.27	.23	.172
23157CC	+	DS1488N*	DIP-14	Quad line driver RS-232 (75188N)	\$2.99	.27	.23
16361CC	+	DS14C88N	DIP-14	Quad CMOS line driver RS-232 .....	.57	.50	.41
193703CC	+	DS1489D	SOIC-14	Quad line receiver RS-232 (75189D) ..	.27	.23	.172
23181CC	+	DS1489N*	DIP-14	Quad line receiver RS-232 (75189N) ..	.23	.215	.20
16379CC	+	DS14C89N	DIP-14	Quad CMOS line receiver RS-232	1.00	.73	.55
252128CC	+	MAX3221CAE	SSOP-16	RS-232 transceiver w/ auto shutdown	2.29	1.99	1.59
277042CC	+	MAX3221CAE	SSOP-16	True 3V-5.5V RS-232 trans. w/ autoshtdwn ..	2.65	2.27	2.13
299760CC	+	MAX3222CAP	SSOP-20	True RS-232 low power trans.	3.35	2.69	1.83
276963CC	+	MAX3222CDBR	SSOP-20	3V-5.5V, low pwr RS-232 trans.	2.09	1.94	1.74
276859CC	+	MAX3232CDR	SOIC-16	3V-5.5V, true RS-232 transceiver	1.69	1.61	1.45
276867CC	+	MAX3232CSE	SOIC-16	3V-5.5V, true RS-232 transceiver	3.69	2.94	1.88
276795CC	+	MAX3238CDBR	SSOP-28	3V5.5V, true RS-232 w/ autoshtdwn ..	1.85	1.73	1.55
276824CC	+	MAX3238IDBR	SSOP-28	3V5.5V, true RS-232 w/ autoshtdwn ..	2.19	1.96	1.77
276761CC	+	MAX3243CDWR	SOIC-28	True 3V-5.5V RS-232 trans. w/ autoshtdwn ..	1.37	1.27	1.14
276779CC	+	MAX3243IDWR	SOIC-28	True 3V-5.5V RS-232 trans. w/ autoshtdwn ..	1.69	1.61	1.45
299911CC	+	DS14C232CM	SOIC-16	Low pwr TIA/EIA 232 dual driver/recvr ...	1.05	.94	.86
235301CC	+	DS14C232CN	DIP-16	Low pwr +5V TIA/EIA 232 dual driv/recvr ..	1.09	.91	.86

*10 pcs. in Linear series IC cabinet kit, pg 34

RS-232 Drivers/Receivers (Con't)



Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
277982CC	+	SN75185DW	SOIC-20	Multiple RS-232 drivers/receivers	\$.79	\$.60	\$.45
256081CC	+	SN75185N	DIP-20	Multiple RS-232 drivers/receivers .....	.69	.60	.50
245366CC	+	SN75C188D	SOIC-14	Quad low power line driver .....	.56	.42	.32
23181CC	+	SN75189N	DIP-14	Quad line rec. RS-232 (DS1489N) .....	.23	.215	.20
245374CC	+	SN75C189D	SOIC-14	Quad low power line receiver .....	.84	.71	.56
278205CC	+	TL145406N	DIP-16	Triple RS-232 drivers/receivers .....	.97	.88	.73
25099CC	+	MC145406P	DIP-16	RS232-CV.28 driv./rec. (CMOS) (75C1406N)	1.95	1.75	1.59

RS-422/485 Receivers

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
299815CC	LTC	LTC485CS8	SOIC-8	RS-485 low power interface trans.	\$2.15	\$1.84	\$1.73
299807CC	LTC	LTC485CN8	DIP-8	RS-485 low power interface trans.	2.09	1.39	1.15
276605CC	MAX	MAX490CSA	SOIC-8	Low pwr, slew-rate limited RS-485/422 ...	2.55	1.95	1.25
276576CC	MAX	MAX490CPA	DIP-8	Low pwr, slew-rate limited RS-485/422 ...	2.55	2.05	1.83
276550CC	MAX	MAX491CPD	DIP-14	Low pwr, slew-rate limited RS-485/422 ...	2.55	2.05	1.85
311837CC	MAX	MAX1480BEPI	DIP-28	Complete iso. RS485-422 data interface ..	28.75	22.29	21.18
244179CC	ADI	ADM1485JN	DIP-8	RS-485 differential bus transceivers ..	2.05	1.83	1.65
244187CC	ADI	ADM1485JR	SOIC-8	RS-485 differential bus transceivers ..	1.75	1.48	1.25
235310CC	+	DS1487N	DIP-8	Low pwr RS-485 1/4 unit load recvr.	1.75	1.32	1.18
244195CC	+	MAX1487CPA	DIP-8	RS-485/RS-422 low-power transceivers ..	2.39	1.99	1.31
244208CC	+	MAX1487CSA	SOIC-8	RS-485/RS-422 low-power transceivers ..	2.35	1.99	1.53
39571CC	+	AM26LS30	DIP-16	Dual diff RS422 party line Qd RS423 line driv.	2.39	2.05	1.76
39589CC	+	AM26LS31CN	DIP-16	Quad diff line driver	\$2.79	.61	.54
243555CC	+	AM26LV31CD	SOP-16	RS-422 quad differential line transceivers ..	1.15	1.09	.92
39600CC	+	AM26LS32CN	DIP-16	Quad diff line receiver RS422/423 .....	.64	.57	.429
272217CC	+	DS26LS32ACN	DIP-16	Quad diff line receiver .....	.66	.50	.38
242051CC	+	AM26LV32CD	SOP-16	RS-422 quad differential line receivers	1.05	.92	.83
252427CC	+	MC3486D	SOIC-16	Quad EIA-422/423 line rec. w/ 3-st. outputs ..	.66	.50	.38
25232CC	+	MC3486P	DIP-16	Quad EIA-422/423 line rec. w/ 3-st. outputs ..	.66	.56	.38
252961CC	+	MC3487D	SOIC-16	Quad EIA-422 differential line driver .....	.65	.50	.38
25259CC	+	MC3487P	DIP-16	Quad EIA-422 line driver w/ 3-state outputs....	.66	.56	.38
298142CC	NSC	DS3691M	SOIC-16	RS-422/423 line drivers w/ 3-state outputs ..	1.99	1.48	1.11
298134CC	NSC	DS3691N	DIP-16	RS-422/423 line drivers w/ 3-state outputs ..	1.10	.99	.83
144039CC	NSC	DS3695N	DIP-8	Multipoint RS-485/422 trans. w/ 3-st. outputs ..	1.75	1.32	.99
235336CC	NSC	DS3696N	DIP-8	Multipoint RS-485/RS-422 trans./repeaters ...	2.29	1.71	1.28
299671CC	NSC	DS8921AN	DIP-8	RS-422 differential line driver/receiver pair ...	1.59	.98	.86
298169CC	NSC	DS8921M	SOIC-8	RS-422 differential line driver/receiver pair ...	1.45	1.10	.83
299701CC	NSC	DS8922AM	SOIC-16	RS-422 dual differential line driver/receiver pair ..	1.59	1.19	.90
299719CC	NSC	DS8922AN	DIP-16	RS-422 dual differential line driver/receiver pair ..	1.59	1.19	.89
299727CC	NSC	DS8923AM	SOIC-16	RS-422 dual differential line driver/receiver pair ..	1.65	1.22	.92
309753CC	NSC	DS8923AN	DIP-16	Dual RS-422 diff. line driver/rec. pairs ..	1.65	1.25	.93
235344CC	NSC	DS36C278N	DIP-8	Low pwr multipoint EIA RS-485 transceiver ..	2.69	2.25	2.15
241980CC	NSC	SN75LBC172N	DIP-16	RS-485 differential line drivers	4.39	3.81	3.58
241998CC	NSC	SN75LBC173N	DIP-16	RS-422/RS-423/RS-485 diff. line rec.	3.05	2.62	2.46
50948CC	+	SN75174N	DIP-16	Quad diff. RS-422 line driver w/ 3-st. out ...	.76	.74	.63
245340CC	+	SN75175D	SOIC-16	Quad diff. RS-422 line receivers .....	.71	.60	.50
50956CC	+	SN75175N	DIP-16	Quad diff. EIA 422A/423A line rec. w/3-st. out ..	.72	.56	.45
243707CC	TI	SN75LBC175D	SOIC-16	Quadruple low power diff. line receiver ..	1.89	1.55	1.17
243715CC	TI	SN75LBC175N	DIP-16	RS-422/RS-423/RS-485 diff. line rec.	2.85	2.47	2.32
50964CC	+	SN75176BN	DIP-8	Differential bus transceiver .....	.65	.55	.45
251053CC	+	SN75LBC176AD	SOIC-8	Differential bus transceiver	3.09	2.71	1.99
244136CC	+	SN75LBC176AP	DIP-8	RS-485 differential bus transceivers ..	2.75	2.46	1.99
251846CC	+	SN75LBC176D	SOIC-8	Differential bus transceiver RS485	1.59	1.31	.86
243723CC	+	SN75LBC176P	DIP-8	RS-485 differential bus transceivers ..	2.15	1.99	1.75

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

RS-422/485 Receivers (Continued)

Package (see pg 31)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
235387CC	NSC	DS96172CN	DIP-16	RS-485/RS-422 quad diff. line drivers	\$3.79	\$3.60	\$3.45
235361CC	NSC	DS96173CN	DIP-16	RS-485/RS-422 quad diff. line recvr's	2.59	2.35	2.05
235395CC	NSC	DS96174CN	DIP-16	RS-485/RS-422 quad diff. line drivers	2.49	1.89	1.49
235379CC	NSC	DS96175CN	DIP-16	RS-485/RS-422 quad diff. line rec.	2.49	1.89	1.49
235408CC	NSC	DS96176CN	DIP-8	RS-485/RS-422 diff. bus transceivers	1.79	1.59	1.19

Interface Series

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100	
310498CC	TI	XTR101AP	DIP-14	Low-drift precision 2-wire trans.	\$13.19	\$12.00	\$10.76	
310501CC	TI	XTR101AU	SOIC-16	Low-drift precision 2-wire trans.	13.35	12.15	10.89	
312021CC	TI	XTR105AP	DIP-14	4-20mA current transmitter	7.29	7.19	6.91	
310703CC	ST	L294	MW-11	Switch mode solenoid driver	3.05	2.63	2.35	
310738CC	ST	L295	MW-15	Dual switch mode solenoid driver	6.19	5.75	5.49	
116206CC	+	TC426CPA	DIP-8	Dual 1.5A hi speed pwr MOSFET driver	1.10	.96	.94	
245593CC	+	TC426EOA	SOIC-8	Dual 1.5A hi speed pwr MOSFET driver ...	1.15	.94	.89	
242077CC	+	TC428CPA	DIP-8	Dual MOSFET 1.5A driver	1.35	.97	.86	
242085CC	+	MAX626CPA	DIP-8	Dual 1.5A-peak low-side MOSFET driver ..	1.14	.93	.90	
242093CC	+	MAX627CPA	DIP-8	Dual MOSFET driver	1.10	.99	.93	
246692CC	+	LT1030N	DIP-14	Quad low power line driver	1.11	.93	.76	
310754CC	+	TC1426COA	SOIC-8	1.2A dual high-speed MOSFET drivers ....	.68	.66	.64
310771CC	+	TC1426CPA	DIP-8	1.2A dual high-speed MOSFET drivers ....	.88	.68	.63
12239CC	+	CA3161E	DIP-16	BCD to 7-seg. decoder driver	2.05	1.78	1.67	
310480CC	ON	MC33152D	SOIC-8	Dual high-speed MOSFET drivers	1.15	1.07	.85	
310439CC	ON	MC33152P	DIP-8	Dual high-speed MOSFET drivers	1.15	1.07	.85	
25216CC	NSC	MC3479P	DIP-16	Biphase stepper motor driver	3.99	3.39	2.69	
24230CC	NSC	LM3914N	DIP-18	Bar-graph display driver	2.55	2.15	1.99	
300003CC	NSC	LM3914N-1	DIP-18	Dot/bar display driver	1.65	1.54	1.38	
246625CC	NSC	LM3914V	PLCC-20	Dot/bar display driver	2.59	2.18	1.68	
24256CC	NSC	LM3915N	DIP-18	3 dB steps bar-graph disp. driver	2.49	1.99	1.55	
24272CC	NSC	LM3916N	DIP-18	VU meter display driver	2.19	1.65	1.22	
291320CC	+	MIC4420CM	SOIC-8	6A-peak low side MOSFET driver	1.05	1.03	.90	
291434CC	+	MIC4420CN	DIP-8	6A-peak low side MOSFET driver	1.29	1.15	1.05	
251029CC	+	TC4420COA	SOIC-8	6A high speed MOSFET drivers	1.45	1.25	1.18	
310965CC	+	TC4422CPA	DIP-8	9A high-speed MOSFET drivers	2.49	1.62	1.52	
310800CC	+	TC4422EPA	DIP-8	9A high-speed MOSFET drv, extended temp.	2.69	2.46	2.33	
291590CC	+	MIC4427CM	SOIC-8	Dual 1.5A-peak low side MOSFET drv	1.15	1.05	.94	
312207CC	+	MIC4429CM	SOIC-8	6A-peak low-side MOSFET driver .....	.99	.87	.82
291645CC	+	MIC4429CN	DIP-8	6A-peak low side MOSFET driver	1.45	1.28	1.21	
243379CC	+	MM5453N	DIP-40	Liquid crystal display driver	3.65	2.80	2.16	
314691CC	+	ICL7136CPL	DIP-40	3 1/2 digit LCD LP display driver	4.89	4.65	4.42	
313453CC	+	ICM7211AMIPL	DIP-40	4-digit LCD display driver	2.89	2.62	2.39	
313437CC	+	ICM7218AIJ1	DIP-28	8-digit LED up multi display decoder drv	4.95	3.86	3.45	
313445CC	+	ICM7218BIJ1	DIP-28	8-digit LED up multi display decoder drv	7.39	7.04	6.68	
312160CC	MAX	MAX7219CNG	DIP-24	Serially interfaced 8-digit LED display drv	9.09	7.90	7.50	
312178CC	MAX	MAX7219CWG	SO-24	Serially interfaced 8-digit LED display drv	9.09	7.90	7.50	
313322CC	+	ICM7228AIP1	DIP-28	8-digit up compatible LED display decoder drv	4.45	3.71	3.15	
241875CC	+	FAN8082	DIP-8	Bi-directional, 18V DC motor driver	\$95.70	.52	.47	
241867CC	+	FAN8200	DIP-14	Bi-directional, 2-ch, 9V stepper motor drv	.79	.68	.64	
213170CC	+	UA9636A	DIP-8	Dual differential line receiver (MC3488A)	.55	.47	.36	
256727CC	+	SN65LVDS31D	SOIC-16	High speed differential line driver	\$93.22	2.95	2.36	1.86
256719CC	+	SN65LVDS048AD	SOIC-16	LVDS quad differential line receiver ..	3.15	2.72	2.55	
272188CC	+	SN65LVDS050D	SOIC-16	High speed diff. line driver/receiver ..	3.99	3.48	3.13	
241824CC	+	MC14489BP	DIP-20	5V, LED display/lamp driver	4.29	3.75	3.52	
287831CC	+	MC14489BDW	SOG-20	5V LED driver, 5 digit / 25 lamps	3.39	3.19	3.05	
50884CC	+	SN75154N	DIP-16	Quad line receiver .....	.75	.57	.428
277907CC	+	SN75172N	DIP-16	Quad differential line driver	1.15	.91	.69	
245331CC	+	SN75173D	SOIC-16	Quadruple differential line receiver	1.15	.92	.70	
50930CC	+	SN75173N	DIP-16	Quadruple differential line receiver	1.15	.96	.91	
277958CC	+	SN75179BD	SOIC-8	Differential driver and receiver pair .....	.95	.79	.65
277940CC	+	SN75179BP	DIP-8	Differential driver and receiver pair	\$78.67	.61	.52	
278133CC	TI	SN75LBC180AN	DIP-14	Low pwr diff. line driver/receiver pairs ..	2.15	1.94	1.75	
277966CC	+	SN75182N	DIP-14	Dual differential line receivers .....	.79	.66	.55
277974CC	+	SN75183N	DIP-14	Dual differential line drivers	1.19	.95	.71	

Interface Series (Continued)

DIP SOIC

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
51027CC	+	SN75451AN	DIP-8	Dual peripheral AND driver	\$49.39	\$30	\$23
51035CC	+	SN75452N	DIP-8	Dual peripheral NAND driver	.47	.45	.32
278002CC	+	SN75453BP	DIP-8	Dual peripheral OR drivers	.39	.30	.23
277317CC	+	SN75454BP	DIP-8	Dual peripheral NOR drivers	.39	.30	.23
277430CC	+	SN75462P	DIP-8	Dual peripheral NAND drivers	.62	.47	.36
278037CC	+	SN75471P	DIP-8	Dual peripheral AND driver	.63	.47	.31
278053CC	+	SN75472P	DIP-8	Dual peripheral NAND driver	.54	.42	.37
278061CC	+	SN75477P	DIP-8	Dual peripheral NAND driver	.56	.44	.34
51131CC	+	SN75492P	DIP-14	Hex digit driver (492)	\$425.345	3.00	2.81
310746CC	+	SN751177N	DIP-16	Dual differential drivers/receivers	2.75	2.39	2.32
253083CC	+	SN751730N	DIP-16	Triple line driver/receiver	2.35	1.90	1.50

Digital Interface ICs

DIP

Part No.	Product No.	Pkg.	Description	1	10	50
141532CC	EDE1200	DIP-18	Unipolar stepper motor controller	\$8.29	\$6.90	\$5.90
157526CC	EDE1204	DIP-18	Bipolar stepper motor controller	8.29	6.90	5.90
171969CC	EDE1144	DIP-18	Keypad encoder	6.99	5.65	5.00
171951CC	EDE702	DIP-18	Serial LCD interface	8.99	7.65	6.75

5000 Series & Clock Chips

DIP SOIC

Part No.	Cross Ref.	Pkg.	Description	1	10	50
32803CC	TCM5089N	DIP-16	Integrated tone dialer chip	\$4.99	\$4.49	\$3.99
26091CC	MM5321N	DIP-16	TV camera synchronous generator	6.99	6.59	5.99
26171CC	MM5450N	DIP-40	34-segment LED display driver	2.99	2.79	2.39
86799CC	LM555CM	SOIC-8	Timer (NE555D)	.24	.21	.185
27422CC	LM555CN*	DIP-8	Timer (MC1455P/NE555V)	.27	.23	.19
126797CC	LMC555CN*	DIP-8	CMOS 555 timer	.54	.49	.44
24328CC	LM556N*	DIP-14	Dual 555 timer	.77	.57	.42
243395CC	DP8573AN	DIP-24	5V real time clock chip	11.29	9.69	8.59
26201CC	MM58167AN	DIP-24	Microprocessor real time clock	4.49	3.85	2.85
95530CC	RTC72421B	DIP-18	Real time clock module	6.79	5.69	4.17
25101CC	MC146818	DIP-24	Real time clock plus RAM	4.09	3.48	3.15

*10 pcs. in Linear series IC cabinet kit, pg 34

*20 pcs. in Linear series IC cabinet kit, pg 34

UARTs

DIP PLCC

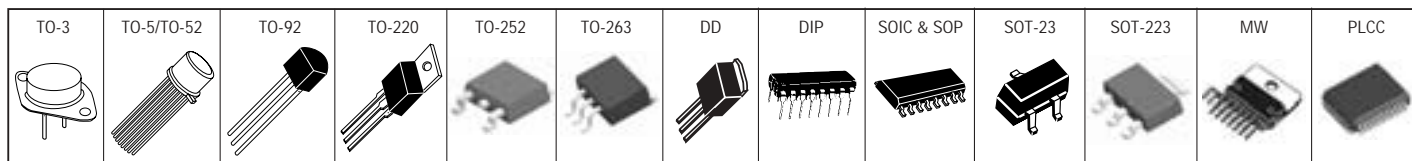
Part No.	Cross Ref.	Pkg.	Description	1	10	100
43158CC	6402	DIP-40	CMOS/LSI UART (TR1863)	\$4.95	\$4.49	\$4.05
27570CC	NS16C450N	DIP-40	CMOS ACE (IBM-AT compat.) (82C450)	3.49	2.69	2.09
288753CC	TL16C450FN	PLCC-68	5V UART, 1-channel w/o FIFO	2.65	2.12	1.66
288761CC	TL16C451FN	PLCC-68	5V UART, 1-channel w/o FIFO, parallel port	4.39	3.55	2.79
288770CC	TL16C452FN	PLCC-68	5V UART, 2-channel w/o FIFO, parallel port	4.45	3.59	2.85
27596CC	NS16550AN	DIP-40	UART w/ FIFO (PC16550DN)	5.89	4.49	3.39
288796CC	TL16C550CFN	PLCC-44	5V UART, 1-channel w/ FIFO, ACF	3.09	2.49	1.95
288809CC	TL16C550CN	DIP-40	5V UART, 1-channel w/ FIFO, ACF	3.09	2.49	1.95
288825CC	TL16C552AFN	PLCC-68	5V UART, 2-channel, biontronics port	5.99	4.85	4.09
288841CC	TL16C554FN	PLCC-68	5V UART, 4-channel w/ 16B FIFO	9.95	9.45	8.99
288876CC	TL16C750FN	PLCC-44	5V UART, 1-channel w/ 64B FIFO	5.75	5.65	5.55
288905CC	TL16C754BFN	PLCC-68	5V UART, 4-channel w/ 64B FIFO	13.69	12.99	12.35

Encoders/Decoders

DIP

Part No.	Cross Ref.	Pkg.	Description	1	10	100
243942CC	HCS300	DIP-8	2-6.3V, Code hopping decoder	\$1.75	\$1.65	\$1.55
243483CC	HCS512	DIP-18	3-6V, Code hopping decoder	7.15	6.85	6.50
243934CC	HCS515	DIP-14	3-6V, Code hopping decoder	3.25	3.05	2.75
243951CC	HCS2000	DIP-8	3.5-13V, Code hopping decoder	1.95	1.65	1.45
123730CC	HT12E	DIP-18	Encoder 12-bit	1.69	1.49	1.29
123748CC	HT12D	DIP-18	Decoder 8-bit address/4-bit data	1.69	1.49	1.29
243441CC	MCP2120	DIP-14	IrDA encoder/decoder	2.15	2.05	1.95
243459CC	MCP2150	DIP-18	IrDA standard protocol stack controller	7.29	7.05	6.70
243408CC	TP3054	DIP-16	5V serial PCM u-Law	2.39	1.79	1.49
243416CC	TP3057	DIP-16	5V serial PCM A-Law	2.49	1.75	1.49
243424CC	TP3064	DIP-20	5V serial PCM u-Law	3.19	3.11	3.05
243432CC	TP3067	DIP-20	5V serial PCM A-Law	2.39	1.95	1.49

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Encoders/Decoders (Continued)

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
289529CC	TLC320AC01CFN	PLCC-28	Audio codec, 14-bit, 1-channel, 25kHz ...	\$6.99	\$6.85	\$6.60
288745CC	TIR1000PWR	TSSOP-8	Standalone IrDA encoder/decoder	2.25	2.19	2.05
287937CC	MCP2120	SOIC-14	IrDA encoder/decoder	1.99	1.89	1.85
287945CC	MCP2140-I/P	DIP-18	IrDA controller, + DTE/DCE endec	2.29	2.26	2.17
287953CC	MCP2140-I/SO	SOIC-18	IrDA controller, + DTE/DCE endec	2.29	2.22	2.15
287961CC	MCP2140-I/SS	SSOP-20	IrDA controller, + DTE/DCE endec	2.39	2.35	2.27
287970CC	MCP2150-I/SO	SOIC-18	IrDA standard protocol stack controller	6.95	6.85	6.70
291004CC	TP3054WM	SOIC-16	PCM codec, 1-ch., u-law, 2MHz	2.25	1.75	1.35
287849CC	MC145026D	SOIC-16	Encoder, 9-line, simplex, OSC.	1.99	1.27	1.15
296702CC	MC145026P	DIP-16	Encoder, 9-line, simplex, OSC.	1.99	1.29	1.15
287865CC	MC145027DW	SOIC-16	Decoder, 5-line, simplex, OSC.	2.39	2.05	1.80
296711CC	MC145027P	DIP-16	Decoder, 5-line, simplex, OSC.	2.25	1.55	1.41
296729CC	MC145028P	DIP-16	Decoder, 9-line simplex, OSC.	2.75	1.85	1.69
287873CC	MC145481DW	SOG-20	PCM codec, 13-bit, 1-ch., u-law/a-law	2.69	2.49	2.35
287881CC	MC145483SD	SSOP-20	PCM codec, 13-bit, 1-ch., u-law/a-law	3.05	2.85	2.60
287890CC	MC145484DW	SOIC-20	PCM codec, 13-bit, 1-ch., u-law/a-law	2.39	1.65	1.55
287902CC	MC145484SD	SSOP-20	PCM codec, 13-bit, 1-ch., u-law/a-law	2.75	2.49	2.35

KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

146472CC: PIC-SERVO Motion Control Chipset for DC Motors

- PIC servo control for DC motors with digital encoders
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)



175901CC

175901CC: PIC-STEP Motion Control Chip for Stepper Motors

- Step rates up to 50,000 steps/sec. – suitable for use with microstepping drivers
- Trapezoidal positioning and profiled velocity modes
- Programmable current limits automatically switch between holding and running currents
- Programmable accelerations and minimum step rates

Part No.	Description	Package	1	10	50
146472CC	PIC-SERVO chip set	DIP-28/18, 0.3"	\$34.95	\$29.50	\$27.95
175901CC	PIC-STEP chip	DIP-28, 0.3"	25.75	21.75	19.75

Stepper Motor Drivers/Controllers

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
288059CC	L292	Multiwatt-15	Switch mode DC motor drive, 36V, 36kHz ..	\$5.39	\$4.99	\$3.99
288067CC	L297/1	DIP-20	5V stepper motor controller	5.49	5.25	4.69
288075CC	L297D	SOIC-20	5V stepper motor controller	5.99	5.69	5.40
288083CC	L6201	SOIC-20	36V DMOS full bridge motor driver	7.79	7.19	6.45
288091CC	L6202	DIP-18	36V DMOS full bridge motor driver	7.85	6.39	5.79
288104CC	L6203	Multiwatt-11	36V DMOS full bridge motor driver	12.35	11.09	10.55
288112CC	L6506	DIP-18	5V stepper motor current controller	4.25	3.49	2.95
288121CC	L6506D	SOIC-20	5V stepper motor current controller	4.49	3.75	3.31

Even lower OEM pricing for larger orders!

Corporate Customers

Call 1-800-831-4242 for details today.

A/D & D/A Converters

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43748CC	7106CPL	DIP-40	A/D with 3 1/2-digit LCD control	\$3.39	\$2.99	\$2.49
43756CC	7107CPL	DIP-40	A/D with 3 1/2-digit LED control	3.19	2.59	2.19
290263CC	ICL7135CPI	DIP-28	4 1/2 digit precision A/D converter	5.79	4.70	4.02
289545CC	TLC5401DW	SOIC-20	8-bit A/D w/ MUX, sample/hold, serial, 75kHz ...	3.39	3.25	3.15
289553CC	TLC5401FN	PLCC-20	8-bit A/D w/ MUX, sample/hold, serial, 75kHz ..	3.39	3.29	3.15
289588CC	TLC5401N	DIP-20	8-bit A/D w/ MUX, sample/hold, serial, 75kHz ..	3.35	3.15	2.99
289596CC	TLC5411DW	SOIC-20	8-bit A/D w/ MUX, sample/hold, serial, 40kHz ..	2.89	2.64	2.55
289609CC	TLC5411FN	PLCC-20	8-bit A/D w/ MUX, sample/hold, serial, 40kHz ..	2.75	2.45	1.95
289625CC	TLC5411N	DIP-20	8-bit A/D w/ MUX, sample/hold, serial, 40kHz ..	2.85	2.69	2.55
289684CC	TLC542CDW	SOIC-20	8-bit A/D w/ OSC., 25kHz	2.55	2.47	2.45
289692CC	TLC542CN	DIP-20	8-bit A/D w/ OSC., 25kHz	2.55	2.47	2.45
289705CC	TLC542FN	PLCC-20	8-bit A/D w/ OSC., 25kHz	2.79	2.45	1.97
289713CC	TLC545CN	DIP-28	8-bit A/D w/ MUX, sample/hold, serial 76kHz ...	5.45	5.35	5.25
289730CC	TLC5481D	SOIC-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz	2.39	2.25	2.20
289756CC	TLC548CP	DIP-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz	2.35	1.99	1.69
289781CC	TLC549CD	SOIC-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz	1.95	1.75	1.65
289810CC	TLC549CP	DIP-8	8-bit A/D w/ sample/hold, 1-channel, 45kHz	1.99	1.76	1.69
290984CC	TLV5711DW	SOIC-24	8-bit, 1-ch parallel A/D converter, 2.7V to 5.5V	4.29	4.09	3.99
290992CC	TLV5711PW	TSSOP-24	8-bit, 1-ch parallel A/D converter, 2.7V to 5.5V	4.29	4.09	3.99
10145CC	ADC0803LCN	DIP-20	8-bit A/D 1-input ($\pm 1/2$ LSB), 100 μ s	4.59	4.15	3.65
10153CC	ADC0804LCN	DIP-20	8-bit A/D 1-input (± 1 LSB), 100 μ s	2.49	1.89	1.39
10170CC	ADC0808CCN	DIP-28	8-bit A/D w/ 8-ch. mux. ($\pm 1/2$ LSB), 100 μ s	4.99	4.19	3.43
10188CC	ADC0809CCN	DIP-28	8-bit A/D w/ 8-ch. mux. (± 1 LSB), 100 μ s	2.89	2.59	1.99
10209CC	ADC0817CCN	DIP-40	8-bit A/D w/ 16-ch. mux. ($\pm 1/2$ LSB), 100 μ s	7.29	6.65	5.95
10225CC	ADC0820CCN	DIP-20	8-bit hi spd (1/2 μ s) A/D w/ track&hold	2.99	2.29	2.10
116100CC	ADC0831CCN	DIP-8	8-bit A/D w/ mux. diff. input (± 1 LSB), 32 μ s ..	1.95	1.75	1.59
290474CC	TLV0831CD	SOIC-8	8-bit A/D, multiplexer, serial, 49kHz	2.39	2.29	2.25
290491CC	TLV0831CP	DIP-8	8-bit A/D, multiplexer, serial, 49kHz	2.39	2.15	1.75
251176CC	TL0831CP	DIP-8	8-bit A/D, w/ serial control (± 1 LSB), 32 μ s ..	2.69	2.55	2.45
290538CC	TLC0832CD	SOIC-8	8-bit A/D, multiplexer, serial, 45kHz	2.39	2.29	2.25
290554CC	TLV0832CP	DIP-8	8-bit A/D, multiplexer, serial, 45kHz	2.39	2.29	2.25
290562CC	TLV0834CD	SOIC-14	8-bit A/D, multiplexer, serial, 41kHz	2.49	2.25	1.79
290571CC	TLV0834IN	DIP-14	8-bit A/D, multiplexer, serial, 41kHz	2.65	2.57	2.50
290600CC	TLV0838CDW	SOIC-20	8-bit A/D, multiplexer, serial, 38kHz	2.49	2.39	2.35
290618CC	TLV0838IN	DIP-20	8-bit A/D, multiplexer, serial, 38kHz	2.65	2.55	2.50
287603CC	ADS930E	SSOP-28	8-bit A/D (± 1 LSB), 30MHz	4.89	4.60	4.00
296690CC	AD7226KN	DIP-20	8-bit A/D 4-input (± 1 LSB), 5 μ s	19.89	18.79	17.65
287321CC	AD7226KR	SOIC-28	8-bit A/D 4-input (± 1 LSB), 5 μ s	19.89	18.79	17.65
242296CC	TLC1543	DIP-20	10-bit A/D 11-inputs (± 1 LSB), 38ksps	3.39	2.89	2.33
242309CC	TLC1549	DIP-20	10-bit A/D 1-input (± 1 LSB), 38ksps	3.69	2.99	2.29
287591CC	ADS901E	SSOP-28	10-bit A/D, (± 1 LSB), 25MHz	6.49	6.25	5.90
288681CC	THS1030IDW	SOIC-28	10-bit A/D, 30Msps parallel	7.29	7.05	6.75
288690CC	THS1031IDW	SOIC-28	10-bit A/D, 30Msps parallel	8.09	7.85	7.55
288729CC	THS1031IPW	TSSOP-28	10-bit A/D, 30Msps parallel	8.09	7.85	7.55
289001CC	TLC1541CDW	SOP-20	10-bit A/D, 11-input serial, 32kHz	6.05	5.75	5.45
289019CC	TLC1541CN	DIP-20	10-bit A/D, 11-input serial, 32kHz	6.09	5.85	5.75
289027CC	TLC1541CFN	PLCC-20	10-bit A/D, 11-input serial, 32kHz	5.79	5.59	5.39
289078CC	TLC1542CDW	SOP-20	10-bit A/D, 11-input serial, 38kHz	4.65	4.09	3.49
289107CC	TLC1542CN	DIP-20	10-bit A/D, 11-input serial, 38kHz	4.55	4.39	4.25
289115CC	TLC1542CFN	PLCC-20	10-bit A/D, 11-input serial, 38kHz	4.55	4.39	4.25
289123CC	TLC1543CDB	SSOP-20	10-bit A/D, 11-input serial, 38kHz	3.65	3.25	3.05
289131CC	TLC1543CDW	SOIC-20	10-bit A/D, 11-input serial, 38kHz	3.35	3.25	3.09
289220CC	TLC1543CFN	PLCC-20	10-bit A/D, 11-input serial, 38kHz	3.35	3.25	3.09
289271CC	TLC1543QDB	SSOP-20	10-bit A/D, 11-input serial, 38kHz	4.05	3.79	3.75
289300CC	TLC1543QDW	SOIC-20	10-bit A/D, 11-input serial, 38kHz	3.99	3.79	3.75

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

A/D & D/A Converters (Continued)

Package (see pg 33)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
289334CC	TLC1543QFN	PLCC-20	10-bit A/D, 11-input serial, 38kHz	\$3.99	\$3.79	\$3.75
289369CC	TLC1549CD	SOP-8	10-bit A/D serial, 11-input, 38kHz	3.35	3.19	3.05
289377CC	TLC15511FN	PLCC-28	10-bit A/D, 11-input parallel, 164kHz, ITMP	6.29	5.99	5.70
277165CC	MAX186BCPP	DIP-20	12-bit serial A/D 8-input, low power	29.95	23.55	21.25
277157CC	MAX186DCWP	SOIC-20	12-bit serial A/D 8-input, low power	19.75	15.55	13.99
277069CC	MAX197BCNI	DIP-28	12-bit A/D w/ 8-ch, 1/2 LSB	24.99	22.95	20.95
287515CC	ADS574JP	DIP-28	12-bit A/D (± 1 LSB), 40ksps	38.79	36.85	35.00
287574CC	ADS574KP	DIP-28	12-bit A/D (± 1 LSB), 40ksps	44.75	42.49	40.39
287283CC	AD674BJN	DIP-28	12-bit A/D 1-input (± 1 LSB), 15us	41.35	31.05	25.05
287582CC	ADS774JU	SOIC-28	12-bit A/D (± 1 LSB), 125ksps	35.45	33.69	32.00
309711CC	LTC1298CN8	DIP-8	12-bit A/D ($\pm 3/4$ LSB), 11ksps	8.95	7.66	7.18
289422CC	TLC2543CDW	SOIC-20	12-bit A/D, 11-input serial, 66kHz	8.35	7.95	7.55
289431CC	TLC2543CFN	PLCC-20	12-bit A/D, 11-input serial, 66kHz	7.29	6.55	5.59
289465CC	TLC2543CN	DIP-20	12-bit A/D, 11-input serial, 66kHz	8.35	7.95	7.55
289473CC	TLC2543CDB	SSOP-20	12-bit A/D, 11-input serial, 66kHz	8.35	7.95	7.55
290634CC	TLV2543CDW	SOIC-20	12-bit A/D, 11-channel serial	7.99	7.79	7.55
290669CC	TLV2543CDW	DIP-20	12-bit A/D, 11-channel serial	8.35	7.95	7.55
43764CC	7109CPL	DIP-40	12-bit A/D 1-input (± 2 LSB), 30sps	7.49	6.37	4.77
311781CC	MCP3221A5T-IOT	SOT-23A/5	12-bit A/D, low-power I2C interface	2.05	1.58	1.25
287988CC	MCP3301-CIMS	MSOP-8	13-bit A/D, 1-input serial, diff. input	2.79	2.65	2.55
287996CC	MCP3301-CIP	DIP-8	13-bit A/D, 1-input serial, diff. input	2.59	2.49	2.40
288008CC	MCP3302-CIP	DIP-14	13-bit A/D, 2-input serial, diff. input	3.59	3.45	3.30
288016CC	MCP3302-CI/SL	SOIC-14	13-bit A/D, 2-input serial, diff. input	3.59	3.45	3.30
288024CC	MCP3302-CI/TSSOP	14	13-bit A/D, 2-input serial, diff. input	3.85	3.65	3.50
288032CC	MCP3304-CIP	DIP-16	13-bit A/D, 4-input serial, diff. input	3.95	3.79	3.65
288041CC	MCP3304-CI/SL	SOIC-16	13-bit A/D, 4-input serial, diff. input	3.95	3.79	3.65
277149CC	MAX110ACWE	SOIC-16	14-bit serial A/D w/ 2-ch, low cost	15.25	11.99	10.79
277131CC	MAX110BCPE	DIP-16	14-bit serial A/D w/ 2-ch, low cost	11.69	9.21	8.29
277122CC	MAX110BCWE	SOIC-16	14-bit serial A/D w/ 2-ch, low cost	11.69	9.21	8.29
313779CC	TC500ACOE	SOIC-16	17-bit A/D analog "front end", 18mW	4.55	4.51	4.46
313787CC	TC500CPE	DIP-16	17-bit A/D analog "front end", 18mW	3.35	3.05	2.89
287312CC	AD676JD	DIP-28	16-bit A/D 1-input (± 1 LSB), 100ksps	85.69	83.85	81.99
242317CC	ADS7805	DIP-28	16-bit A/D 1-input (± 3 LSB), 100ksps	42.65	38.37	34.53
242325CC	ADS7813	DIP-16	16-bit A/D 1-input (± 2 LSB), 40ksps	37.85	35.25	33.15
239417CC	ADS7825	DIP-28	16-bit A/D 4-inputs (± 2 LSB), 40ksps	46.55	43.45	41.35
287401CC	AD976ABN	DIP-28	16-bit A/D 1-input (± 2 LSB), 200ksps	72.69	69.49	66.05
287419CC	AD976ABRS	SSOP-28	16-bit A/D 1-input (± 2 LSB), 200ksps	72.99	69.49	66.05
287435CC	AD976BR	SOIC-28	16-bit A/D 1-input (± 3 LSB), 100ksps	58.55	55.59	52.85
287507CC	ADS1100A01DBVT	SOT-23/6	16-bit A/D, self-calibrating	3.59	3.45	3.25
288593CC	PCM1800E	SSOP-24	20-bit stereo A/D, 2-input serial, 32-48kHz	4.75	4.65	4.49
288622CC	PCM1801U	SOIC-14	20-bit stereo A/D, 2-input serial, 32-48kHz	4.89	4.29	4.15
287363CC	AD7714AN	DIP-24	24-bit A/D 6-input, 38ksps	18.35	17.95	17.50
316726CC	TC7117CPL	DIP-40	A/D conv w/ 3 1/2 digit LED/LCD driver	3.75	2.89	2.75
287793CC	MC144110DW	SOIC-20	6-bit D/A, 6-input, serial R-2R	4.45	4.20	3.90
287822CC	MC144111DW	SOIC-16	6-bit D/A, 4-input, serial R-2R	3.65	2.49	2.29
115158CC	AD558JN	DIP-16	8-bit D/A 1-input ($\pm 1/2$ LSB), 200ns	12.59	11.99	11.29
14904CC	DAC0800LCN	DIP-16	8-bit D/A (± 1 LSB), 100ns	1.79	1.59	1.45
14912CC	DAC0806LCN	DIP-16	8-bit D/A (± 1 LSB), 150ns (MC1408P6)	1.89	1.85	1.82
14947CC	DAC0808LCN	DIP-16	8-bit D/A (± 1 LSB), 150ns (MC1408P8)	1.59	1.39	1.09
14963CC	DAC0830LCN	DIP-20	8-bit D/A double buffer (.05% Lin.), 1 μ s	5.95	4.49	4.35
128186CC	DAC0832LCN	DIP-20	8-bit D/A double buffer (.20% Lin.), 1 μ s	3.09	2.99	1.89
290781CC	TLV5604ID	SOIC-16	8-bit D/A, 4-channel, serial	6.85	6.75	6.39
290790CC	TLV5604IPW	TSSOP-16	8-bit D/A, 4-channel, serial	6.85	6.75	6.39
289836CC	TLC5620CN	DIP-14	8-bit D/A, 4-channel, serial	2.89	2.72	2.69
289844CC	TLC5620CD	SOIC-14	8-bit D/A, 4-channel, serial	2.75	2.64	2.55
289861CC	TLC5628CDW	SOIC-16	8-bit D/A, 8-channel, serial	4.75	4.29	4.15
289879CC	TLC5628CN	DIP-16	8-bit D/A, 8-channel, serial	4.65	4.55	4.30
290968CC	TLV5628DW	SOIC-16	8-bit D/A, 8-channel, serial	4.49	3.95	3.75
290976CC	TLV5628CN	DIP-16	8-bit D/A, 8-channel, serial	4.69	3.79	2.99
54025CC	AD7523JN	DIP-16	8-bit D/A 1-input (± 1 LSB), 150ns	2.99	2.49	2.19
289895CC	TLC7524CD	SOIC-16	8-bit D/A, multiplier, parallel	2.59	2.19	1.79
290052CC	TLC7524CN	DIP-16	8-bit D/A, multiplier, parallel	2.75	2.39	1.95
290087CC	TLC7528CN	DIP-20	8-bit D/A, multiplier, parallel	2.69	2.25	1.92
290095CC	TLC7528IDW	SOIC-20	8-bit D/A, multiplier, parallel	2.55	2.49	2.05
287339CC	AD7628KN	DIP-20	8-bit D/A 2-input (± 1 LSB), 350ns	4.35	3.79	3.70
239425CC	TLC5615	DIP-8	10-bit D/A 1-input (± 1 LSB), 12 μ s	3.49	2.79	2.32

A/D & D/A Converters (Continued)

Package (see pg 33)

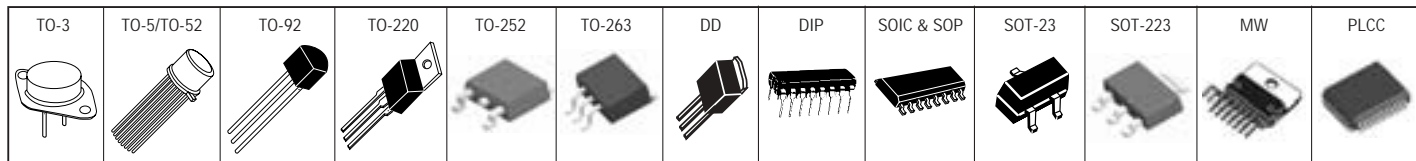
Part No.	Cross Ref.	Pkg.	Description	1	10	100
287380CC	AD9760AR	SOIC-28	10-bit D/A, 125Mbps	\$8.19	\$7.39	\$6.69
287443CC	AD9832BRU	TSSOP-16	10-bit DDS D/A, 25MHz	8.89	8.15	7.29
287451CC	AD9850BR5	SSOP-28	10-bit DDS D/A w. comp., 3.5ns	20.09	18.45	17.39
287347CC	AD767JN	DIP-24	12-bit D/A 1-input (± 1 LSB), 4us	20.49	19.49	18.50
287355CC	AD767KN	DIP-24	12-bit D/A 1-input (± 1 LSB), 4us	20.09	18.69	16.65
14980CC	DAC1222LCN	DIP-18	12-bit D/A (.20% Lin.), 500ns	9.95	8.95	8.05
290802CC	TLV5610IDW	SOIC-20	12-bit D/A, 8-channel, serial	15.99	15.25	14.49
290845CC	TLV5610IPW	TSSOP-20	12-bit D/A, 8-channel, serial	16.05	15.25	14.49
290829CC	TLV5613IDW	SOIC-20	12-bit D/A, 1-channel, parallel	5.09	4.99	4.75
290853CC	TLV5613IPW	TSSOP-20	12-bit D/A, 1-channel, parallel	5.09	5.00	4.75
290896CC	TLV5614CD	SOIC-16	12-bit D/A, 4-channel, serial	13.95	13.25	12.59
290933CC	TLV5614CPW	TSSOP-16	12-bit D/A, 4-channel, serial	13.95	13.25	12.59
287398CC	AD9764AR	SOIC-28	14-bit D/A, 125Mbps	14.25	11.75	11.15
239433CC	DAC712	DIP-28	16-bit D/A 1-input (± 1 LSB), 10 μ s	21.79	20.35	18.89
242771CC	DAC714P	DIP-16	16-bit D/A w/ serial interf. (± 1 LSB), 10 μ s	39.35	33.75	29.55
243336CC	DAC715	SOIC-28	16-bit D/A w/ bus interface (± 1 LSB), 10 μ s	34.55	33.65	32.85
243344CC	DAC716	DIP-16	16-bit D/A w/ serial interf. (± 1 LSB), 10 μ s	27.45	25.65	24.85
243352CC	DAC725	DIP-28	16-bit D/A 2-input (± 1 LSB), 8 μ s	199.95	190.55	171.49

Low Drop-Out Voltage Regulators

Package (see pg 33)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
314368CC	ANA	AP130Z	TO-92	300mA ultra-low LDO voltage reg.	\$.54	\$.385	\$.285
314350CC	ANA	AP131W	SOT-23/5	300ma low-noise LP LDO voltage reg. ....	.89	.68	.513
299743CC	+	LM1084IT-ADJ	TO-220	Low drop out 5A adj. pos. volt. reg.	1.75	1.32	.98
299735CC	+	LM1084IT-3.3	TO-220	Low drop out 5A 3.3V pos. volt. reg.	1.75	1.32	.98
309770CC	+	LM1084IT-12	TO-220/3	Low drop-out 5A pos. 12V volt. reg.	1.17	1.09	1.02
314587CC	ANA	AP1084T	TO-220/3	5A LDO pos volt reg (adj)	1.19	.95	.77
282781CC	+	LD1085D2M33	DD	3A low drop pos volt reg. adj./fixed ..	1.89	1.71	1.54
282757CC	+	LT1085CT	TO-220	3A low drop pos volt reg. adj./fixed ..	1.79	1.61	1.45
302471CC	+	LM1085IS-ADJ	TO-263	Low drop out 3A adj. pos. volt. reg. ..	1.29	.97	.72
302463CC	+	LM1085IS-3.3	TO-263	Low drop out 3A 3.3V pos. volt. reg.	1.29	.97	.72
302455CC	+	LM1085IT-ADJ	TO-220	Low drop out 3A adj. pos. volt. reg.	1.29	.97	.72
244304CC	+	LD1086D2M	TO-263/3	adjustable, low dropout volt. reg.	1.29	1.15	1.04
244312CC	+	LD1086D2M33	TO-263/3	3.3V, low dropout voltage reg.	1.07	.96	.89
245585CC	+	LD1086D2M50	TO-263/3	5.0V, low drop positive voltage reg. ..	1.09	.97	.88
314579CC	ANA	AP1086D	TO-252/3	1.5A LDO pos volt reg (adj)	1.25	.91	.67
245526CC	+	LM1086CS-ADJ	TO-263/3	1.5A low dropout positive reg.	1.09	.81	.59
192305CC	+	LM1086CT-3.3	TO-220/3	1.5A low dropout positive reg. (3.3V) ...	1.09	.81	.60
192313CC	+	LM1086CT-5.0	TO-220/3	1.5A low dropout positive reg. (5V)	1.18	.87	.64
192292CC	+	LM1086CTADJ	TO-220/3	1.5A low dropout positive reg.	1.09	.79	.59
314552CC	ANA	AP1086D33	TO-252/3	1.5A low dropout positive volt reg (3.3V)	1.19	.90	.665
314536CC	ANA	AP1086T	TO-220/3	1.5A pos LDO voltage reg (adj)	1.25	.91	.67
314501CC	ANA	AP1086T33	TO-220/3	1.5A pos LDO voltage reg (3.3V)	1.25	.91	.67
314481CC	ANA	AP117D	TO-252/3	1A pos adj LDO voltage reg	1.03	.76	.551
314472CC	ANA	AP117D5	TO-252/3	1A pos LDO voltage reg (5V)	1.03	.76	.551
314464CC	ANA	AP117E25	SOT-223/3	1A pos LDO voltage reg (2.5V) .....	.91	.68	.494
314448CC	ANA	AP117E5	SOT-223/3	1A pos LDO voltage reg (5V) .....	.89	.68	.494
314376CC	ANA	AP1117T	TO-220/3	1A pos. adj. LDO voltage reg.	1.19	.865	.66
242042CC	+	LM1117DT-3.3	TO-252/3	800mA low dropout linear reg. ....	.74	.54	.40
242069CC	+	LM1117DT-5.0	TO-252/3	800mA, 5V, low dropout voltage reg. ....	.74	.54	.48
251782CC	+	LM1117MPX-ADJ	SOT-223/3	800mA low drop out linear regulator ..	.37	.35	.33
242114CC	+	LM1117T-3.3	TO-220/3	800mA, 3.3V, low dropout voltage reg. ...	.73	.56	.51
243539CC	+	LM1117T-ADJ	TO-220/3	800mA, adj., low dropout voltage reg. ....	.82	.71	.59
300222CC	LTC	LT1129CT	TO-220	Micropower low drop out reg. w/ shutdown ...	3.99	3.89	3.69
314325CC	ANA	AP1184K5	TO-263/5	4A ultra LDO adjustable regulator	5.29	3.69	3.29
244216CC	+	LT1585ACT-3.3	TO-220/3	5A, 3.3V, low dropout voltage reg.	4.39	3.97	3.57
244224CC	+	LT1585ACT-ADJ	TO-220/3	5A, adjustable, low dropout volt. reg.	4.75	4.20	3.60
244144CC	+	LT1587CM	DD/3	3A, low dropout voltage regulator	5.85	4.00	3.80
244152CC	+	LT1587CT-3.3	TO-220/3	3A, 3.3V, low dropout voltage reg.	1.39	1.03	.76
244161CC	+	LM1587CT-ADJ	TO-220/3	3A low dropout fast response reg.	1.39	1.03	.76
310244CC	TI	TLV2217-33KC	TO-220/3	Low drop-out 3.3V volt reg. PNP.....	.76	.64	.515
310121CC	+	LM2930T-5.0	TO-220/3	3-terminal positive voltage regulator .....	.71	.69	.65
121030CC	+	LM2931A2-5.0	TO-92	5V low dropout regulator .....	.49	.43	.31
23368CC	+	LM2931CT	TO-220/5	3V-24V low dropout regulator .....	.66	.62	.60
256612CC	+	LM2931D-5.0	SOIC-8	5V low dropout regulator .....	.46	.40	.35
121048CC	+	LM2931Z-5.0	TO-92	5V low dropout regulator .....	.39	.36	.34

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table									
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Low Drop-Out Voltage Regulators (Con't)

		Package (see above)				
Part No.	Mfr. Cross Ref.	Pkg.	Description	1	10	100
291098CC	NSC LM2937ES-2.5	TO-263	2.5V 500mA low drop out regulator	\$1.55	\$1.16	\$.87
297810CC	NSC LM2937ET-5.0	TO-220	5V 500mA low drop out regulator	1.35	1.00	.88
291101CC	NSC LM2937ET-10	TO-220	10V 500mA low drop out regulator	1.69	1.10	.91
192495CC	LM2940CT-12	TO-220/3	12V low dropout reg. (max. 45Vin)	1.27	1.02	.75
107182CC	LM2940CT-5	TO-220/3	5V low dropout reg. (max. 45Vin)	1.39	1.05	.77
245657CC	LM2941CS	TO-263/5	1A low dropout adjustable regulator	1.79	1.33	.99
121064CC	LM2941CT	TO-220/5	1A low dropout adjust. reg. (45Vin)	.99	.88	.71
233766CC	LM2941T	TO-220/5	1A low dropout adjust. reg. (60Vin)	1.59	1.19	.89
301292CC	LP2950ACZ-3.0	TO-92	Low power, low drop out volt. reg.	1.05	.88	.83
121101CC	LP2950ACZ-5.0	TO-92	100mA low pwr. low dropout volt. reg.	.69	.59	.44
266781CC	LP2950CDT-5.0	TO-252/3	100mA low pwr. low drop out volt. reg.	.99	.74	.54
266845CC	LP2950CZ-3.0	TO-92	100mA low pwr. low drop out volt. reg.	.80	.60	.47
266757CC	LP2950CZ-5.0	TO-92	100mA low pwr. low drop out volt. reg.	.80	.59	.29
266669CC	NSC LP2967IBP-2533	BPA-8	Dual micropower 150ma low drop-out reg.	3.05	2.76	2.48
266589CC	NSC LP2967IBP-2828	BPA-8	Dual micropower 150ma low drop-out reg.	3.05	2.76	2.49
266626CC	NSC LP2967IMM-2528	MSOP-8	Dual micropower 150ma low drop-out reg.	2.79	2.50	2.25
266407CC	NSC LP2967IMM-2533	MSOP-8	Dual micropower 150ma low drop-out reg.	2.79	2.50	2.25
266597CC	NSC LP2967IMM-2626	MSOP-8	Dual micropower 150ma low drop-out reg.	2.79	2.52	2.27
266642CC	NSC LP2967IMM-2828	MSOP-8	Dual micropower 150ma low drop-out reg.	2.79	2.50	2.25
266706CC	NSC LP2968ILD-3.0	LLP-8	uPwr. 200mA ultra low dropout fixed volt. reg.	1.99	1.79	1.62
266722CC	NSC LP2987ILD-5.0	LLP-8	Same as above w/ prog. pwr-on reset delay	1.99	1.79	1.62
246545CC	NSC LM3480IM3-3.3	SOT-23/3	100mA quasi low dropout linear volt. reg.	.99	.90	.81
246553CC	NSC LM3480IM3-5.0	SOT-23/3	100mA quasi low dropout linear volt. reg.	.99	.74	.55
192524CC	LM3940IT-3.3	TO-220/3	1A low dropout, for 5V to 3.3V	1.95	1.47	1.09
252241CC	MC29152BU	TO-263/5	1.5A high current low dropout reg.	2.85	2.68	2.35
251344CC	TI TP76201DBVR	SOT-23/5	100mA low pwr low output adj. LDO linear reg	1.29	1.16	1.04

Voltage Regulators

		Package (see above)				
Part No.	Mfr. Cross Ref.	Pkg.	Description	1	10	100
282618CC	LM1117H	TO-39	3-terminal adjustable regulator	\$6.45	\$5.17	\$4.20
282036CC	LM140LAH-5.0	TO-39	3-terminal positive regulator	5.55	4.27	3.24
302375CC	LM217T	TO-220	1.2 - 37V adj. positive voltage reg.	.65	.62	.59
234999CC	LM309K	TO-3/2	5V 1A regulator (0°C to +125°C)	4.99	3.85	2.98
192268CC	LM317AT	TO-220/3	3-terminal adjustable reg. (1.2V-37V)	1.75	1.25	.95
192276CC	LM317HVT	TO-220/3	3-terminal adjustable reg. (1.2V-57V)	1.99	1.77	1.31
235444CC	LM317K	TO-3/2	1.5A adj. pos. reg. (1.2V-37V)	1.75	1.49	1.12
193551CC	LM317LM	SOIC-8	100mA adj. pos. regulator (1.2V to 37V)	.33	.29	.20
235522CC	LM317LZ	TO-92	100mA adj. pos. reg. (1.2V-37V)	.23	.22	.20
235799CC	LM317T**	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	.45	.39	.34
236677CC	LM323K	TO-3/2	5V 3A positive regulator	2.89	2.75	2.29
237988CC	LM337K	TO-3/2	1.5A/3 term. adj. neg. reg.	2.79	2.69	2.55
193586CC	LM337LM	SOIC-8	1.5A adj. neg. regulator (-1.2V to -37V)	.52	.46	.42
296841CC	LM337LZ	TO-92	3-terminal adj. negative voltage reg.	.54	.465	.395
238199CC	LM337T*	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V)	.59	.55	.44
238355CC	LM338K	TO-3/2	5A adj. pos. reg. (1.2V-32V)	4.95	3.89	3.25
192284CC	LM338T	TO-220/3	5A adjustable regulator	1.99	1.49	.99
23931CC	LM350K	TO-3/2	3A/3 term. adj. pos. reg. (1.2V-33V)	4.75	3.75	2.89
239400CC	LM350T	TO-220/3	3 amp. adj. power regulator	1.09	.89	.69
239134CC	LM431ACM	SOIC-8	Programmable shunt regulator	.29	.25	.22
278248CC	TL431A1LP	TO-92	Adjustable precision shunt regulator	.41	.34	.23
314069CC	ANA AP431AR	SOT-23	Prog. shunt regulator (5%, 2.5 - 36V)	.62	.536	.455
314051CC	ANA AP431AV	TO-92	Prog. shunt regulator (5%, 2.5 - 36V)	.65	.565	.475
314818CC	ANA AP431V	TO-92	Prog. shunt regulator (1%, 2.5 - 36V)	.36	.31	.265
239142CC	LM431BCM	SOIC-8	Programmable shunt regulator	.48	.36	.26

*10 pieces included in Linear kit, pg 34

**20 pieces included in Linear kit, pg 34

Voltage Regulators (Continued)

		Package (see above)				
Part No.	Mfr. Cross Ref.	Pkg.	Description	1	10	100
251862CC	LM431CIM	SOIC-8	Adj. precision zener shunt regulator	\$.37	\$.32	\$.28
276525CC	MAX MAX637ACPA	DIP-8	Preset/Adj. output CMOS invert switching reg.	6.25	4.95	4.46
276517CC	MAX MAX637ACSA	SOIC-8	Preset/Adj. output CMOS invert switching reg.	6.45	4.93	3.60
214050CC	LM723CD	SOIC-14	High precision voltage regulator	.32	.28	.26
24467CC	LM723CN*	DIP-14	Voltage regulator (2V-37V)	.26	.24	.23
301719CC	LM723H	TO-5	2V - 37V, 150mA adj. voltage reg.	3.49	2.67	2.07
298071CC	MAX755CSA	SOIC-8	-5V/adj., neg. output, invert, curr. mode PWM reg.	3.85	3.65	3.46
291688CC	LT1074CT	TO-220/5	5A step-down switching regulator	9.19	8.99	8.55
300185CC	LTC LTC1147LCS8	SOIC-8	High efficiency step-down switching reg.	5.45	3.65	2.95
302279CC	LM2524DN	DIP-16	200mA regulating PWM	1.39	.99	.90
192330CC	LM2574HVN-5.0	DIP-8	Simple switcher 0.5A step-down volt. reg.	3.49	3.15	2.65
192348CC	LM2574HVN-12	DIP-8	Simple switcher 0.5A step-down volt. reg.	3.85	3.27	2.45
245551CC	LM2574N-ADJ	DIP-8	Simple switcher 0.5A step-down volt. reg.	1.29	1.17	1.05
156566CC	LM2574N-5	DIP-8	Step-down 5-voltage regulator	1.49	1.27	.95
279638CC	NSC LM2575HVT-5.0	TO-220	Simple switcher 1A step down volt. reg.	4.35	3.35	3.15
279603CC	NSC LM2575HVT-12	TO-220	Simple switcher 1A step down volt. reg.	4.35	3.64	3.28
192399CC	LM2576HVT-12	TO-220/5	Simple switcher 3A step down volt. reg.	5.89	4.53	3.52
192381CC	LM2576HVT-5.0	TO-220/5	Simple switcher 3A step down volt. reg.	5.09	4.59	4.13
192372CC	LM2576HVT-ADJ	TO-220/5	Simple switcher 3A step down volt. reg.	5.09	3.93	3.04
245569CC	LM2576T-5.0	TO-220/5	Simple switcher 3A step down volt. reg.	2.35	1.76	1.36
120977CC	LM2576T-ADJ	TO-220/5	Simple switcher 3A step down volt. reg.	1.89	1.51	1.19
300821CC	NSC LM2586S-ADJ	TO-263	Simple switcher 3A flyback reg. w/ shutdown	5.95	5.15	5.06
300871CC	NSC LM2586S-5.0	TO-263	Simple switcher 3A flyback reg. w/ shutdown	5.95	5.15	5.06
300898CC	NSC LM2586S-12	TO-263	Simple switcher 3A flyback reg. w/ shutdown	5.95	5.15	5.06
300919CC	NSC LM2586T-ADJ	TO-263	Simple switcher 3A flyback reg. w/ shutdown	5.95	5.15	5.06
192410CC	LM2587T-ADJ	TO-220/5	Simple switcher 5A flyback regulator	7.59	6.05	4.90
300804CC	NSC LM2588S-ADJ	TO-263	Simple switcher 5A flyback reg. w/ shutdown	7.75	6.20	5.55
300847CC	NSC LM2588T-ADJ	TO-220	Simple switcher 5A flyback reg. w/ shutdown	7.79	7.45	7.05
300759CC	NSC LM2592HVS-ADJ	TO-263	Simple switcher 2A step down voltage reg.	5.55	4.59	4.33
300783CC	NSC LM2592HVS-5.0	TO-263	Simple switcher 2A step down voltage reg.	5.55	4.59	4.33
300724CC	NSC LM2592HVT-ADJ	TO-220	Simple switcher 2A step down voltage reg.	5.55	4.25	3.53
300732CC	NSC LM2592HVT-3.3	TO-220	Simple switcher 2A step down voltage reg.	5.55	4.80	4.33
300708CC	NSC LM2594M-ADJ	SOIC-8	Simple switcher 0.5A step down voltage reg.	2.79	2.13	1.65
300716CC	NSC LM2594M-3.3	SOIC-8	Simple switcher 0.5A step down voltage reg.	2.79	2.41	2.17
192428CC	NSC LM2594N-ADJ	DIP-8	Simple switcher pwr. conv. 150kHz 0.5A	2.85	2.53	2.28
300695CC	NSC LM2594N-3.3	DIP-8	Simple switcher 0.5A step down voltage reg.	2.79	2.29	2.17
300265CC	NSC LM2595S-ADJ	TO-263	Simple switcher 1A step down voltage reg.	4.49	4.25	4.05
300273CC	NSC LM2595S-12	TO-263	Simple switcher 1A step down voltage reg.	3.49	2.89	2.74
300775CC	NSC LM2595T-ADJ	TO-220	Simple switcher 1A step down voltage reg.	3.49	2.70	2.07
192452CC	NSC LM2595T-5.0	TO-220/5	Simple switcher pwr. conv. 150kHz 1A	3.49	2.69	2.07
310391CC	NSC LM2596S-5.0	TO-263/5	Simple switcher 3A step down voltage reg.	3.89	2.99	2.85
290626CC	NSC LM2596T-ADJ	TO-220/7	Simple switcher 3A step-down voltage reg.	3.89	2.99	2.35
290642CC	NSC LM2596T-5.0	TO-220/7	Simple switcher 3A step-down voltage reg.	3.95	3.25	3.09
290597CC	NSC LM2599T-ADJ	TO-220/7	Simple switcher 3A step-down voltage reg.	4.69	3.58	3.22
290731CC	NSC LM2651MTC-ADJ	TSSOP-16	1.5A high eff. synchronous switching reg.	4.05	3.85	3.69
290749CC	NSC LM2651MTC-3.3	TSSOP-16	1.5A high eff. synchronous switching reg.	3.15	2.99	2.85
290757CC	NSC LM2670S-5.0	TO-263/7	5V hi efficiency simple switcher	4.29	3.55	3.35
312397CC	NSC LM2636MTC	TSSOP-20	5-bit prog. synchronous buck reg.	3.45	2.65	2.51
312389CC	NSC LM2653MTC-ADJ	TSSOP-16	1.5A high eff. synch. switching reg.	4.19	3.25	3.12
290765CC	NSC LM2672N-5.0	DIP-8	5V hi efficiency simple switcher	3.79	3.15	2.96
290888CC	NSC LM2674M-ADJ	SOIC-8	Adjustable voltage hi efficiency switcher	2.85	2.35	2.20
290861CC	NSC LM2674N-5.0	DIP-8	5V hi efficiency simple switcher	2.85	2.35	2.20
291012CC	NSC LM2675N-ADJ	DIP-8	Simple switch 1A step down volt. reg. pwr. ctrl.	3.65	2.99	2.85

*10 pieces included in Linear kit, pg 34

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

Voltage Regulators (Continued)

Package (see pg 35)

* Prepackaged: order in increments of 10, 100 or 1000					1	10	100
Part No.	Mfr.	Cross Ref.	Pkg.	Description			
291039CC	NSC	LM2678S-ADJ	TO-263/7	Simple switcher 5A step down volt. reg., hi-eff	\$5.45	\$5.29	\$5.05
291047CC	NSC	LM2678T-5.0	TO-220/7	Simple switcher 5A step down volt. reg., hi-eff	5.45	5.29	5.05
290651CC	NSC	LM2596S-ADJ	TO-263	Simple switcher 3A step down volt. reg.	3.89	2.99	2.28
290394CC	NSC	LM2599S-ADJ	TO-263/7	Simple switcher 3A step down volt. reg.	4.75	3.85	3.64
290925CC	NSC	LM2675LD-ADJ	LLP-16	Simple switcher 1A step down volt. reg. pwr cnvtr.	4.59	4.35	4.15
245649CC	+	LM2936MP-3.3	SOT-223	Ultra-low quiescent current 3.3V reg.	3.25	2.93	1.92
107166CC	+	LM2936Z-5	TO-92	Ultra-low quiescent current 5V reg.	1.85	1.68	1.18
239151CC	+	LP2951CM	SOIC-8	Adjustable micropower voltage regulator	.91	.68	.49
277077CC	+	LP2952IM	SOIC-16	Adj. micropower low pwr volt reg.	2.35	1.75	1.44
51246CC	+	7805K	TO-3/2	5V 1A pos. voltage reg. (LM340K-5)	5.15	3.95	3.06
51262CC	+	7805T**	TO-220/3	5V 1A pos. voltage reg. (LM340T-5)	.35	.32	.28
51182CC	+	78L5CZ**	TO-92	5V 100mA pos. voltage regulator	.27	.24	.22
193754CC	+	78L05ACM	SOIC-8	5V 100mA pos. voltage regulator	.28	.22	.19
192233CC	+	78M05	TO-220/3	5V 500mA pos. voltage regulator	.35	.32	.24
51297CC	+	7806T	TO-220/3	6V 1A pos. voltage reg. (LM340T-6)	.30	.25	.21
193762CC	+	78L06ACM	SOIC-8	6.2V 100mA pos. voltage regulator	.27	.23	.17
51300CC	+	7808CT*	TO-220/3	8V 1A pos. voltage reg. (LM340T-8)	.46	.35	.27
192225CC	+	78L09ACZ	TO-92	9V 100mA pos. voltage regulator	.24	.23	.17
51318CC	+	7812K	TO-3/2	12V 1A pos. voltage reg. (LM340K-12)	2.19	1.79	1.59
51334CC	+	7812T**	TO-220/3	12V 1A pos. voltage reg. (LM340T-12)	.35	.32	.28
51203CC	+	78L12CZ*	TO-92	12V 100mA pos. voltage regulator	.19	.19	.155
193771CC	+	78L12ACM	SOIC-8	12V 100mA pos. voltage regulator	.34	.29	.22
192241CC	+	78M12CT	TO-220/3	12V 500mA pos. voltage regulator	.31	.27	.21
51369CC	+	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15)	1.19	1.12	1.03
51377CC	+	7815T*	TO-220/3	15V 1A pos. voltage reg. (LM340T-15)	.28	.25	.22
193789CC	+	78L15ACM	SOIC-8	15V 100mA pos. voltage regulator	.16	.16	.12
192250CC	+	78M15CT	TO-220/3	15V 500mA pos. voltage regulator	.27	.23	.17
194634CC	+	7818T	TO-220/3	18V 1A pos. voltage reg. (LM340T-18)	.56	.44	.34
51414CC	+	7824T	TO-220/3	24V 1A pos. voltage reg. (LM340T-24)	.36	.34	.31
51238CC	+	78S40CN	DIP-16	1.25V-40V 1.5A switching regulator	1.35	1.08	.87
51457CC	+	7905T*	TO-220/3	5V 1A neg. voltage reg. (LM320T-5)	.42	.38	.36
51422CC	+	79L05ACP	TO-92	5V 100mA neg. voltage regulator	.26	.22	.165
193797CC	+	79L05ACM	SOIC-8	-5V 100mA neg. voltage regulator	.25	.21	.16
51449CC	+	79M05CT	TO-220/3	3-terminal negative regulator	.84	.62	.46
51481CC	+	79L12CT*	TO-220/3	12V 1A neg. voltage reg. (LM320T-12)	.31	.27	.21
51431CC	+	79L12CZ	TO-92	12V 100mA neg. voltage regulator	.23	.21	.16
193800CC	+	79L12ACM	SOIC-8	-12V 100mA neg. voltage regulator	.52	.38	.28
51502CC	+	7915CT*	TO-220/3	15V 1A neg. voltage reg. (LM320T-15)	.32	.27	.22
194749CC	+	79L15ACZ	TO-92	15V 100mA neg. voltage regulator	.35	.30	.21
193818CC	+	79L15ACM	SOIC-8	-15V 100mA neg. voltage regulator	.19	.19	.17
316881CC	+	MC34063AD	SOIC-8	1.5A Step-up/down inverting switch reg.	.52	.432	.353
316945CC	+	MC34063AP1	DIP-8	1.5A Step-up/down inverting switch reg.	.66	.473	.437
314371CC	ANA	AP34063N	DIP-8	1.6A adjustable voltage regulator	.75	.66	.499

*10 pieces included in Linear kit, below right **20 pcs. in Linear series IC cabinet kit, below right

Audio

Package (see pg 35)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
277624CC	+	INA103KP	DIP-16	Low noise/distortion instr. amp.	\$8.55	\$7.67	\$6.91
277632CC	+	INA103KU	SOIC-16	Low noise/distortion instr. amp.	8.55	7.67	6.91
278408CC	+	TPA112D	SOIC-8	150mW stereo audio power amplifier	.89	.75	.60
310560CC	+	TPA122D	SOIC-8	150mW stereo audio power amplifier	.98	.83	.75
243678CC	ADI	OP275GP	DIP-8	Dual JFET audio op amp.	2.75	2.49	2.24
243660CC	ADI	OP275GS	SOIC-8	Dual JFET audio op amp.	1.19	.96	.86
24037CC	NSC	LM380N	DIP-14	2-watt audio power amp.	.87	.63	
24088CC	NSC	LM383T	TO-220/5	7-watt audio high power amp.	5.95	5.39	4.95
24096CC	+	LM384N	DIP-14	5-watt audio amp.	1.45	1.17	.87
193623CC	+	LM386M-1	SOIC-8	Low volt. audio power amp. 250mW/12V	.31	.26	.195
24125CC	+	LM386N-1*	DIP-8	Low voltage audio amp. 250mW/6V	.48	.35	.29
24133CC	+	LM386N-3*	DIP-8	Low voltage audio amp. 500mW/9V	.69	.59	.49
24483CC	+	LM725CN	DIP-8	Instrumentation op amplifier	2.39	1.84	1.42
279697CC	+	LM833D	SOIC-8	Dual audio op amp.	.41	.36	.32
120942CC	+	LM833N	DIP-8	Dual audio op amp.	.71	.57	.43
295718CC	NSC	LM1203N	DIP-28	RGB video amp.	4.55	4.09	3.69
24942CC	ON	MC1350P	DIP-8	Video IF amp (12V operation)	1.95	1.85	1.75
23270CC	NSC	LM1875T	TO-220/5	20-watt power audio amplifier	1.45	1.39	1.19

*10 pieces included in Linear kit, right

Audio (Continued)

Package (see pg 35)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
245534CC	NSC	LM1877M-9	SOIC-14	Dual audio power amplifier	\$1.39	\$1.04	\$0.76
23288CC	NSC	LM1877N-9	DIP-14	Dual power audio amplifier	1.39	.95	.61
245542CC	NSC	LM1881M	SOIC-8	Video synchronous separator	2.69	2.04	1.57
107140CC	NSC	LM1881N	DIP-8	Video synchronous separator	2.69	2.05	1.55
243547CC	NSC	LM1894N	DIP-14	DNR noise reduction	2.79	2.14	1.66
302519CC	NSC	LM1971M	SOIC-8	Audio attenuator with mute	2.35	1.79	1.65
302447CC	NSC	LM1972M	SOIC-20	2-channel audio attenuator	4.15	3.18	2.89
302421CC	NSC	LM1972N	DIP-20	2-channel audio attenuator	4.55	3.69	3.50
32897CC	ST	TDA2002V	TO-220/58	watt audio high power amp.	3.55	3.18	2.87
315344CC	+	TDA2040V	PWAT-5	20W hi-fi audio power amp.	2.45	2.39	2.33
275830CC	ADI	OPA2134PA	DIP-8	High-performance audio op amp.	2.39	1.93	1.58
275821CC	ADI	OPA2134UA	SOIC-8	High-performance audio op amp.	2.25	2.02	1.82
312063CC	+	SSM2141P	DIP-8	High common-mode rejection diff. line rec.	3.19	2.79	2.69
252013CC	NSC	LM3875T	TO-220/11	56W high perf. audio power amp.	5.19	4.11	3.70
126834CC	NSC	LM3876T	TO-220/11	40W high perf. audio amp. with mute	4.75	3.66	2.82
192516CC	NSC	LM3886T	TO-220/11	68W high perf. audio amp w/ mute	4.35	3.32	2.57
302201CC	NSC	LM4752T	TO-220	Stereo 11W audio power amp.	2.45	1.82	1.35
302199CC	NSC	LM4860M	SOIC-16	1W audio power amp w/ shutdown mode	1.59	1.19	.88
267047CC	NSC	LM4864M	SOIC-8	725mW audio pwr amp w/ shutdown mode	1.45	1.06	.78
302181CC	NSC	LM4871M	SOIC-8	3W audio power amp w/ shutdown mode	1.45	1.09	.80
316873CC	+	MC34119D	SOIC-8	LP audio amp (500mW, 16VDC)	.93	.71	.54
316865CC	+	MC34119P	DIP-8	LP audio amp (500mW, 16VDC)	1.02	.66	.61

Comparators

Package (see pg 35)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
311052CC	NSC	LM111H	TO-5/8	Voltage comparator	\$3.39	\$2.60	\$2.01
311044CC	NSC	LM111J-8	DIP-8	Voltage comparator	4.35	3.32	3.15
282061CC	+	LM139D	SOP-14	Low pwr, low offset volt quad comp.	.95	.80	.65
282087CC	+	LM139J	CDIP-14	Low pwr, low offset volt quad comp.	2.29	1.74	1.30
302501CC	NSC	LM193H	TO-5	Dual low-power comparator	4.65	3.55	2.78
302391CC	+	LM211D	SOIC-8	Hi-speed, strobed diff. comparator	.39	.315	.28
302383CC	+	LM211P	DIP-8	Hi-speed, strobed diff. comparator	.26	.23	.185
302367CC	+	LM219D	SOIC-14	Dual high speed voltage comparator	.85	.79	.74
302287CC	+	LM239D	SOIC-14	Low-power, low offset volt. quad comp.	.28	.26	.245
212126CC	+	LM239N	DIP-14	Low pwr. low offset volt quad comp.	.20	.13	.12
213188CC	+	LM306N	DIP-8	Differential comparator w/ strobes	.59	.50	.43
193543CC	+	LM311D	SOIC-8	Voltage comparator	.22	.20	.185
23528CC	+	LM311N*	DIP-8	Voltage comparator	.35	.25	.19
251918CC	+	LP311D	SOIC-8	Voltage comparator	.76	.64	.52
239193CC	+	LP311P	DIP-8	Differential comparator	.76	.64	.52
245690CC	+	LM319M	SOIC-14	High speed dual comparator	.37	.32	.235
23632CC	+	LM319N	DIP-14	Hi-speed dual comparator	.41	.36	.27
246537CC	+	LM339AM	SOIC-14	Low pwr low offset volt. quad comp.	.37	.315	.28
143888CC	+	LM339AN	DIP-14	Low power quad comparator	.29	.23	.193
193594CC	+	LM339M	SOIC-14	Low pwr low offset volt quad comp.	.27	.23	.185
23851CC	+	LM339N**	DIP-14	Quad comparator	.19	.19	.165
251977CC	+	LP339M	SOIC-14	Ultra low power quad comparator	.74	.54	.40
121099CC	+	LP339N	DIP-14	Quad low-power comparator	.38	.365	.305
312047CC	TI	TLC372CD	SOIC-8	LinCMOS dual differential comp.	.76	.64	.515
312055CC	TI	TLC372CP	DIP-8	LinCMOS dual differential comp.	.76	.61	.515

*10 pcs. in Linear series IC cabinet kit, below **20 pcs. in Linear series IC cabinet kit, below

Linear and Interface IC Kit SAVE \$59

10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003AN, ULN2803A, NE5532N, 7808T, 78L12CZ, 7815T, 7905T, 7912CT, 7915CT

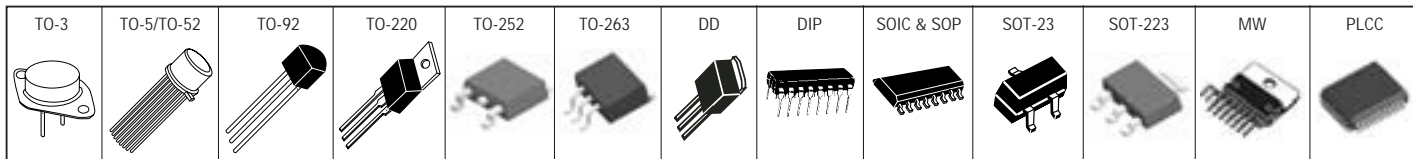
20 each: LM317T, LM324N, LM339N, LM741CN, LM555CN, 7805T, 78L05CZ, 7812T



84988CC

Part No.	Description	Wt. (lbs.)	1	10
84988CC	480 pcs. (40 types) analog IC kit	6.0	\$182.95	\$164.65
130411CC	Refill for 84988CC (480 pcs.)	1.3	169.95	145.95

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Comparators (Continued)

Package (see above)

* Prepackaged: order in increments of 10 or 100

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
314712CC	+	TLC374CD	SOP-14	LinCMOS quad differential comp.	\$.85	\$.71	\$.62
314704CC	+	TLC374CN	DIP-14	LinCMOS quad differential comp.	\$.84	\$.71	\$.57
310404CC	+	TS374IN	DIP-14	Quad low-power CMOS volt. comp.	\$.93	\$.80	\$.72
246633CC	+	LM392M	SOIC-8	Low power op amp./volt. comp.	1.09	1.01	.73
120900CC	+	LM392N	DIP-8	Low power op amp./volt. comp.	1.35	1.00	.74
246641CC	+	LM393AM	SOIC-8	Low pwr low offset volt dual comp.	1.30	.25	.22
212177CC	+	LM393AN	DIP-8	Low pwr low offset volt dual comp.	1.84	*.175	.135
193631CC	+	LM393D	SOIC-8	Low pwr offset voltage dual comp.	.22	.20	.18
24281CC	+	LM393N*	DIP-8	Dual comparator	.20	.18	.17
277093CC	+	LMV393M	SOIC-8	Low volt. general purpose dual comp.	.85	.63	.46
315328CC	+	TL712CD	SOIC-8	Differential comparator	1.25	1.06	.86
214041CC	TI	TL712CP	DIP-8	Differential comparator	.99	.84	.63
278256CC	TI	TL714CP	DIP-8	High speed differential comparator	2.65	2.39	2.15
277173CC	NSC	LMC7211AIM	SOIC-8	Comp. w/ rail-to-rail input, push pull output	1.65	1.21	.90
277190CC	NSC	LMC7211BIM	SOIC-8	Comp. w/ rail-to-rail input, push pull output	1.65	1.21	.85
277114CC	NSC	LMC7221AIM	SOIC-8	Comp. w/ rail-to-rail input, open drain output	1.89	1.42	1.08
297844CC	+	MAX902CSD	SOIC-14	Hi-speed, low-pwr precision volt. comp.	9.45	7.63	6.87
291143CC	LTC	LT1016CN-8	DIP-8	Fast precision comparator, 10ns	4.99	3.55	3.45
312266CC	LTC	LT1016CS8	SOIC-8	Ultrafast precision 10ns comparator	4.89	3.55	2.76
310279CC	TI	TLV2352ID	SOIC-8	LinCMOS dual low-voltage diff. comp.	1.69	1.55	1.49
280006CC	TI	TLV2354IN	DIP-14	LinCMOS quad low volt diff comp.	2.85	2.56	2.31
245577CC	+	LM2901M	SOIC-14	Low pwr low offset volt. quad comp.	.30	.25	.20
23296CC	+	LM2901N	DIP-14	Quad comparator	.25	.21	.156
245614CC	+	LM2903M	SOIC-14	Low power low offset volt. dual comp.	.28	.25	.22
23309CC	+	LM2903N	DIP-8	Low power low offset volt. dual comp.	.31	.27	.21
311036CC	+	TL3016CD	SOIC-8	Ultra-fast low-power precision comp.	1.85	1.47	1.12
278213CC	TI	TL3016ID	SOIC-8	Ultra-fast, low pwr precision comp.	2.25	2.03	1.83
278230CC	TI	TL3116CD	SOP-8	Ultra-fast, low pwr precision comp.	1.89	1.68	1.51
278221CC	TI	TL3116ID	SOP-8	Ultra-fast, low pwr precision comp.	1.99	1.80	1.62
245711CC	+	LM3302D	SOIC-14	Low pwr low offset volt. quad comp.	.49	.37	.285
107238CC	+	LM3302N	DIP-14	Low pwr low offset volt. quad comp.	.48	.43	.36
309964CC	+	TLC3704CD	SOIC-14	LinCMOS Quad micro volt. comp.	.99	.82	.68
280137CC	+	TLC3704CN	DIP-14	Quad uPwr LinCMOS volt comp.	1.09	.92	.84
277202CC	NSC	LMC6772AIM	SOIC-8	Dual uPwr rail-to-rail input w/open drain output	2.75	2.10	1.63

*10 pcs. in Linear series IC cabinet kit, pg 34

Buffers

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
23051CC	+	LH0002CN	DIP-10	General purpose buffer	\$12.25	\$10.25	\$7.95
313277CC	+	ZXB05N14	SOIC-14	4-CH buffer w/ high cap load	2.75	2.44	2.19
277552CC	TI	BUF634P	DIP-8	250mA high speed buffer	5.89	5.31	4.78
277544CC	TI	BUF634T	TO-220	250mA high speed buffer	7.85	7.60	6.35
277579CC	TI	BUF634U	SOIC-8	250mA high speed buffer	5.89	5.33	4.79
300249CC	LTC	LT1010CN8	DIP-8	150mA high speed buffer	4.35	4.25	4.05

Op Amps

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
193471CC	+	OP07CD	SOIC-8	Very low offset single bipolar op amp.	\$.62	\$.53	\$.40
27852CC	+	OP07CP	DIP-8	Ultra-low-offset-voltage op amp.	.61	.59	.56
252988CC	+	OP07DP	DIP-8	Very low offset single bipolar op amp.	.62	.52	.42
23106CC	+	LM10CLN	DIP-8	Low voltage (1.1 volt) op amp.	2.49	1.90	1.31
120715CC	+	LM10CN	DIP-8	Op amp and voltage reference	3.19	2.45	1.89
120723CC	NSC	LM12CLK	TO-3/4	80W op amp.	23.45	21.10	18.99
213090CC	+	TL022CP	DIP-8	Dual low power op amp.	.99	.84	.63

Op Amps (Continued)

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
252996CC	+	OP27EZ	CDIP-8	Low noise hi speed precision op amp.	\$13.65	\$12.28	\$11.05
115300CC	+	OP27EP	DIP-8	Low noise precision op amp.	4.19	3.85	3.24
115318CC	+	OP27GP	DIP-8	Low noise prec. op amp. (-40° to 80°C)	2.09	1.69	1.27
275805CC	TI	OPA27GP	DIP-8	Ultra-low noise, precision op amp.	2.19	1.98	1.79
275784CC	TI	OPA27GU	SOIC-8	Ultra-low noise, precision op amp.	2.35	2.09	1.89
253032CC	+	TL031CD	SOIC-8	Enhanced JFET low pwr/offset op amp.	.78	.66	.53
213102CC	+	TL031CP	DIP-8	Enhanced JFET low pwr/offset op amp.	.71	.60	.45
279671CC	+	TL032ACP	DIP-8	Enhanced JFET low pwr/offset op amp.	1.85	1.67	1.51
253059CC	+	TL032CD	SOIC-8	Enhanced JFET low pwr/offset op amp.	1.02	.92	.74
213111CC	+	TL032CP	DIP-8	Enhanced JFET low pwr/offset op amp.	.74	.69	.64
253235CC	+	TL034CD	SOIC-14	Enhanced JFET low pwr/offset op amp.	1.12	.91	.69
214068CC	+	TL034CN	DIP-14	Enhanced low pwr/offset op amp.	1.05	.84	.64
275768CC	+	OPA37GP	DIP-8	Ultra-low noise, precision op amp.	2.45	2.19	1.97
275750CC	+	OPA37GU	SOIC-8	Ultra-low noise, precision op amp.	2.45	2.19	1.97
213129CC	+	TL052ACP	DIP-8	Enhanced JFET low offset op amp.	1.69	1.50	1.35
309981CC	+	TL052CD	SOIC-8	Dual Enhanced JFET prec. op amp.	1.49	1.21	.91
253243CC	+	TL054ACD	SOIC-14	Enhanced JFET low offset op amp.	5.39	4.83	4.35
213153CC	+	TL054ACN	DIP-14	Enhanced JFET low offset op amp.	4.49	3.82	2.86
213145CC	+	TL054CN	DIP-14	Enhanced JFET low offset op amp.	1.29	1.10	.82
213137CC	+	TL061ACP	DIP-8	Low power JFET input op amp.	.61	.52	.39
242106CC	+	TL061IP	DIP-8	Low power JFET op amp.	.79	.62	.45
252283CC	+	TL062ACD	SOIC-8	Low power JFET input op amp.	.66	.50	.37
33161CC	+	TL062CP	DIP-8	Low power JFET op amp. (VCC 8-pin)	.32	.27	.20
253104CC	+	TL064BCD	SOIC-14	Low power JFET input op amp.	.69	.58	.47
253139CC	+	TL064BCN	DIP-14	Low power JFET input op amp.	.69	.58	.47
33179CC	+	TL064CN	DIP-14	Low power JFET input op amp.	.56	.45	.345
213081CC	+	TL071ACP	DIP-8	Low noise JFET input op amp.	.59	.50	.375
33187CC	+	TL071CP	DIP-8	Low noise JFET op amp.	.27	.25	.23
278264CC	+	TLC071CD	SOIC-8	Wide-band, high-output drive op amp.	1.09	.94	.75
278272CC	+	TLC071IP	DIP-8	Wide-band, high-output drive op amp.	1.19	.99	.80
213073CC	+	TL072ACP	DIP-8	Low noise JFET input op amp.	.53	.36	.26
253147CC	+	TL072BCP	DIP-8	Low noise JFET input op amp.	.70	.59	.48
193501CC	+	TL072CD	SOIC-8	Low noise JFET dual op amp.	.39	.33	.25
33195CC	+	TL072CP*	DIP-8	Low noise JFET dual op amp.	.26	.25	.24
278299CC	+	TLC072CD	SOIC-8	Wide-band, high-output drive op amp.	1.45	1.12	1.06
278281CC	+	TL072CP	DIP-8	Wide-band, high-output drive op amp.	1.39	1.12	.84
213065CC	+	TL074BCN	DIP-14	Low noise JFET input op amp.	.51	.45	.415
193519CC	+	TL074CD	SOIC-8	Low noise JFET quad op amp.	.38	.32	.24
33216CC	+	TL074CN*	DIP-14	Low noise JFET quad op amp.	.48	.43	.345
278336CC	+	TLC074CD	SOIC-14	Wide-band, high-output drive	1.95	1.64	1.43
278328CC	+	TLC074CN	DIP-14	Wide-band, high-output drive	1.95	1.64	1.43
278352CC	+	TL080AIP	DIP-8	Wide-band, high-output drive	1.19	.96	.82
278344CC	+	TLC080IP	DIP-8	Wide-band, high-output drive	1.19	.96	.82
213057CC	+	TL081ACP	DIP-8	JFET input op amp.	.51	.45	.415
253155CC	+	TL081CD	SOIC-8	JFET input op amp.	.39	.30	.23
33232CC	+	TL081CP	DIP-8	JFET input op amp.	.31	.30	.26
214076CC	+	TL082ACP	DIP-8	JFET input op amp.	.30	.29	.28
253198CC	+	TL082BCP	DIP-8	JFET input op amp.	.56	.42	.36
193527CC	+	TL082CD	SOIC-8	JFET input dual op amp.	.30	.26	.19
33241CC	+	TL082CP*	DIP-8	JFET input dual op amp.	.53	.40	.30
214084CC	+	TL084ACN	DIP-14	JFET input op amp.	.49	.45	.38
253219CC	+	TL084BCD	SOIC-14	JFET input op amp.	.70	.63	.58
193535CC	+	TL084CD	SOIC-14	JFET input quad op amp.	.43	.41	.39
33267CC	+	TL084CN*	DIP-14	JFET input quad op amp.	.43	.40	.37

*10 pcs. in Linear series IC cabinet kit, pg 34

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

Op Amps (Continued)

					Package (see pg 37)		
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
282626CC	+	LM124D	SOIC-14	Low power quad op amp. mil temp.	\$1.19	\$1.13	\$1.05
126818CC	+	LM124J	CDIP-14	Low power quad op amp. mil temp.	2.19	1.69	1.31
276488CC	TI	OPA124U	SOIC-8	Low noise precision DIFET op amp.	8.45	7.59	6.85
276496CC	TI	OPA124UA	SOIC-8	Low noise precision DIFET op amp.	9.99	9.02	8.15
275856CC	TI	OPA130UA	SOIC-8	Low power precision FET input	2.99	2.69	2.42
243686CC	+	OPA137PA	DIP-8	FET op amp.	1.75	1.57	1.25
243694CC	+	OPA137UA	SOIC-8	FET input op amp.	1.75	1.57	1.25
302480CC	+	LM158H	TO-5	Low power dual op amp	4.39	3.39	2.61
302412CC	+	LM201AD	SOIC-8	Op amp industrial temp.	.52	.49	.47
302404CC	+	LM201AN	DIP-8	Op amp industrial temp.	.62	.58	.54
302341CC	+	LM224D	SOIC-14	Low power quad industrial temp.	.28	.265	.245
302359CC	+	LM224J	CDIP-14	Low power quad industrial temp.	1.65	1.40	1.32
212118CC	+	LM224N	DIP-14	Low power quad industrial temp.	.28	.26	.22
275813CC	TI	OPA234UA	SOIC-8	Low pwr precision snl supply	2.15	1.92	1.73
315230CC	+	TLC252BCD	SOIC-8	LinCMOS dual op amp	2.19	1.95	1.48
315221CC	+	TLC252BCP	DIP-8	LinCMOS dual op amp	2.19	2.16	2.14
302261CC	+	LM258D	SOIC-8	Low pwr dual op amp industrial temp.	.26	.25	.23
212142CC	+	LM258N	DIP-8	Low pwr dual op amp industrial temp.	.22	.20	.175
279742CC	TI	TLC271CD	SOIC-8	LinCMOS prog. low pwr op amp.	.83	.63	.48
279734CC	TI	TLC271CP	DIP-8	LinCMOS programmable low pwr	.55	.50	.45
279806CC	+	TLC272CD	SOIC-8	LinCMOS precision dual op amp.	.79	.60	.45
143917CC	+	TLC272CP	DIP-8	LinCMOS precision dual op amp.	.72	.55	.41
280233CC	TI	TLC272CD	SOIC-8	LinCMOS precision dual op amp.	.68	.57	.46
280225CC	TI	TLC272CP	DIP-8	LinCMOS precision dual op amp.	.56	.51	.42
280188CC	TI	TLC272MCD	SOIC-8	LinCMOS precision dual op amp.	.68	.57	.46
280170CC	TI	TLC272MCP	DIP-8	LinCMOS precision dual op amp.	.68	.57	.46
301313CC	TI	TLC272M4CN	DIP-14	LinCMOS precision quad op amp	.89	.87	.83
242000CC	+	TLC274ACN	DIP-14	Quad precision op amp.	.79	.66	.53
242018CC	+	TLC274BCN	DIP-14	Quad precision op amp.	1.05	.95	.80
242026CC	+	TLC274CN	DIP-14	CMOS precision quad op amp	.65	.60	.50
242034CC	+	TLC274IN	DIP-14	Quad CMOS op-amp.	.79	.66	.54
280217CC	TI	TLC2714CD	SOIC-14	LinCMOS precision quad op amp.	.81	.68	.55
280209CC	TI	TLC2714CN	DIP-14	LinCMOS precision quad op amp.	.60	.55	.47
280161CC	TI	TLC2714CD	SOIC-14	LinCMOS precision quad op amp.	.81	.68	.55
312784CC	+	TL277CD	SOIC-8	LinCMOS precision dual op amp	1.39	1.20	.97
280241CC	+	TLC277CP	DIP-8	LinCMOS precision dual op amp.	1.55	1.23	.98
280196CC	TI	TLC2717CD	SOIC-8	LinCMOS precision dual op amp.	1.39	1.24	1.12
280145CC	TI	TLC2717CD	SOIC-8	LinCMOS precision dual op amp.	1.39	1.24	1.12
280153CC	TI	TLC2717CP	DIP-8	LinCMOS precision dual op amp.	1.39	1.24	1.12
245665CC	+	LM301AH	TO-5/8	Operational amplifier	2.15	1.64	1.27
212151CC	+	LM301AN	DIP-8	Operational amplifier	.47	.42	.38
245673CC	+	LM308AH	TO-5/8	Precision op amp.	3.29	2.51	1.95
23464CC	+	LM308N*	DIP-8	Precision op amp.	4.49	3.99	3.49
245681CC	+	LM318M	SOIC-8	Precision high speed op amp.	1.15	.85	.64
23608CC	+	LM318N	DIP-8	Precision hi-speed op amp.	.59	.54	.48
245702CC	+	LM324AM	SOIC-14	Low power quad op amp.	.27	.23	.20
212169CC	+	LM324AN	DIP-14	Low power quad op amp.	.25	.23	.20
86721CC	+	LM324D	SOIC-14	Low power quad op amp.	.23	.20	.18
23683CC	+	LM324N**	DIP-14	Low power quad op amp.	.28	.24	.21
192559CC	+	LP324N	DIP-14	Micropower quad op amp.	.79	.59	.45
241963CC	+	LMV324M	SOIC-14	Low voltage, general purpose	.67	.60	.54
245438CC	+	LF347BD	SOIC-14	Quad JFET input (wide bandwidth)	1.35	1.18	1.07
245420CC	+	LF347M	SOIC-14	Quad JFET input (wide bandwidth)	.68	.61	.48
22904CC	+	LF347N	DIP-14	Quad JFET input op amp. (wide band)	.36	.30	.28
275776CC	+	OPA347PA	DIP-8	Micropower rail-to-rail op amp.	1.25	1.06	.86
246570CC	+	LM348M	SOIC-14	Quad 741 op amp.	.77	.57	.42
23915CC	+	LM348N	DIP-14	Quad 741 op amp. (UPC4741C)	.37	.30	.21
22912CC	+	LF351N	DIP-8	BIFET op amp.	.39	.35	.29
245518CC	+	LF353D	SOIC-8	Dual JFET input (wide bandwidth)	.37	.30	.23
22939CC	+	LF353N*	DIP-8	Dual BIFET (comp. w/ TL082CP)	.39	.37	.35
193607CC	+	LF356M	SOIC-8	JFET input op amp. (wide band)	.77	.56	.42
22971CC	+	LF356N*	DIP-8	JFET input op amp. (wide band)	.79	.67	.49
22998CC	+	LF357N	DIP-8	JFET input op amp. (wide band decomp.)	2.55	2.33	1.70
246588CC	+	LM358AM	SOIC-8	Low power dual op amp.	.23	.22	.20
120862CC	+	LM358AN	DIP-8	Low power dual (elect improv.)	.29	.25	.23
193615CC	+	LM358D	SOIC-8	Low power dual op amp.	.21	.18	.13

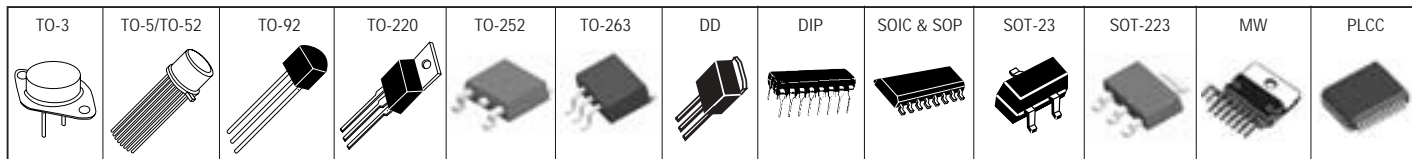
Op Amps (Continued)

					Package (see pg 37)		
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
23966CC	+	LM358N*	DIP-8	Low power dual op amp.	\$2.27	\$2.23	\$2.20
277106CC	+	LMV358M	SOIC-8	Low-volt rail-to-rail output dual	.85	.64	.46
276736CC	+	MAX410CPA	DIP-8	Sngl 28MHz low noise, low volt prec	5.29	4.20	3.79
119941CC	+	LF411ACN	DIP-8	Low offset low drift JFET input	3.65	3.35	2.55
23018CC	+	LF411CN*	DIP-8	Low offset drift JFET input op amp.	1.21	.90	.66
119950CC	+	LF412ACN	DIP-8	Dual JFET op-amp.	3.79	3.41	2.56
193640CC	+	LF412CD	SOIC-8	Low offset drift JFET input dual	.41	.37	.34
23026CC	+	LF412CN*	DIP-8	Low offset drift JFET input dual	1.03	.76	.56
106681CC	+	LF442CN	DIP-8	Dual low power JFET input op amp.	.98	.87	.67
119984CC	+	LF444ACN	DIP-14	Quad low power JFET input op amp	2.75	2.48	1.89
119992CC	+	LF444CN	DIP-14	Quad low power JFET input op amp	1.45	1.09	.79
312805CC	ADI	OP467GP	DIP-14	Quad precision high speed op amp	9.79	8.93	7.99
312813CC	ADI	OP467GS	SOIC-16	Quad precision high speed op amp	9.89	8.52	7.49
276613CC	MAX	MAX474CSA	SOIC-8	Dual 10MHz single supply op amp.	5.09	4.03	3.63
276541CC	MAX	MAX492CPA	DIP-8	Dual upwr, snl supply rail-to-rail	5.09	4.05	3.63
276533CC	MAX	MAX492CSA	SOIC-8	Dual upwr, snl supply rail-to-rail	5.09	3.86	2.50
311773CC	MCH	MCP601-1/5V	DIP-8	2.8MHz, 2.7V to 5.5V single supply CMOS	.60	.55	.525
311749CC	MCH	MCP602-I/P	DIP-8	Dual, 2.8MHz, 2.7V-5.5V single supply CMOS	.72	.71	.68
311765CC	MCH	MCP602-I/SN	SOIC-8	Dual, 2.8MHz, 2.7V to 5.5V single supply CMOS	.77	.71	.68
311731CC	MCH	MCP603-I/P	DIP-8	Single w/ CS, 2.8MHz, 2.7V-5.5V single CMOS	.63	.58	.551
311239CC	MCH	MCP6S21-I/P	DIP-8	1-ch PGA low-gain single ended rail-to-rail I/O	1.69	1.65	1.60
311255CC	MCH	MCP6S22-I/P	DIP-8	2-ch PGA low-gain single-ended rail-to-rail I/O	1.95	1.89	1.82
311247CC	MCH	MCP6S22-I/SN	SOIC-8	2-ch PGA low-gain single-ended rail-to-rail I/O	2.09	1.99	1.89
310367CC	ADI	AD626AN	DIP-8	Low-cost single supply diff. amplifier	5.75	5.69	5.35
313314CC	ADI	AD626AR	SOIC-8	Low-cost single supply diff. amplifier	5.95	5.62	5.34
311221CC	MCH	MCP6S28-I/P	DIP-8	8-ch PGA low-gain single-ended rail-to-rail I/O	2.19	2.15	2.04
267266CC	+	LMC660CM	SOIC-14	CMOS quad operational amplifier	1.45	1.08	.81
143976CC	+	LMC660CN	DIP-14	CMOS quad operational amplifier	1.65	1.23	.91
120926CC	+	LM675T	TO-220/5	Power op amplifier	6.19	5.25	4.39
24491CC	+	LM733CN	DIP-14	Differential amplifier	1.15	.99	.89
24521CC	+	LM741CH	TO-5/8	Op amplifier	2.75	2.10	1.62
24539CC	+	LM741CN**	DIP-8	Op amplifier (ULN2151)	.29	.25	.19
24563CC	+	LM747CN	DIP-14	Dual 741 op amplifier	4.19	3.85	3.39
299938CC	+	LM747H	TO-10	Dual op amp	3.79	3.29	3.07
311132CC	ADI	AD811AN	DIP-8	High performance video op amp	5.75	5.24	4.84
311087CC	ADI	AD812AN	DIP-8	Dual low-power current feedback	5.29	5.19	4.92
277085CC	NSC	LMV824M	SOIC-14	5MHz quad low pwr, low volt, rail-to-rail	1.09	.97	.92
246668CC	NSC	LM837M	SOIC-14	Low noise quad operational amp.	1.02	.80	.75
143896CC	NSC	LM837N	DIP-14	Low-noise quad operational amp.	1.35	1.12	.82
239222CC	LTC	LT1001CN8	DIP-8	Precision op amplifier	3.25	2.75	2.50
239231CC	LTC	LT1002CN	DIP-14	Dual, matched precision op amp	4.75	3.22	2.74
239214CC	LTC	LT1006CN8	DIP-8	Precision op-amplifier	2.65	1.92	1.73
300231CC	LTC	LT1007CS8	SOIC-8	Low-noise, high speed precision	3.75	2.53	2.00
239273CC	LTC	LT1012CN8	DIP-8	Picoamp input curr, microvolt offset, low noise	4.35	3.32	2.57
239169CC	+	LT1013CP	DIP-8	Dual precision op amplifier	1.25	1.10	1.00
252005CC	+	LT1013DD	SOIC-8	Dual precision op amplifier	.79	.66	.54
239177CC	+	LT1014DN	DIP-14	Quad precision op amplifier	3.29	2.99	2.81
300193CC	LTC	LTC1050CN8	DIP-8	Precision zero-drift w/ int. cap	3.65	2.48	2.09
300169CC	LTC	LTC1051CN8	DIP-8	Dual precision zero-drift w/ int. cap	7.45	7.25	6.91
193682CC	+	LM1458M	SOIC-8	Dual op amplifier	.26	.22	.13
23131CC	+	LM1458N*	DIP-8	Dual op amplifier	.29	.26	.20
302498CC	+	LM1815N-ND	DIP-14	Adaptive variable sensor amp	3.19	2.45	1.89
310172CC	TI	TLE2021CD	SOIC-8	Excalibur hi-speed, low-pwr prec	1.05	.86	.79
280129CC	TI	TLE2021CP	DIP-8	Excalibur hi speed low pwr prec	1.09	.92	.74
310236CC	TI	TLE2022CD	SOIC-8	Excalibur hi-speed, low-pwr prec	1.69	1.39	1.30
280111CC	TI	TLE2022CP	DIP-8	Excalibur hi speed low pwr prec	1.45	1.30	1.17
280102CC	TI	TLE2024CDW	SOIC-16	Excalibur hi speed low pwr prec	2.85	2.56	2.29
280090CC	TI	TLE2024CN	DIP-14	Excalibur hi speed low pwr prec	2.79	2.53	2.28
310658CC	TI	TLE2027CD	SOIC-8	Excalibur hi-speed, low-pwr prec	1.75	1.65	1.55
310682CC	TI	TLE2027CD	SOIC-8	Excalibur low-noise hi-speed JFET input	2.05	1.79	1.73
310674CC	TI	TLE2027CP	DIP-8	Excalibur low-noise hi-speed JFET input	1.89	1.85	1.77
275848CC	TI	OPA2131U	SOIC-8	General purpose FET-input op amp.	2.89	2.59	2.34
279996CC	TI	TLV2450CP	DIP-8	Rail-to-rail I/O op amp. w/ shutdown	1.25	1.01	.75
279988CC	TI	TLV2451CD	SOIC-8	Rail-to-rail I/O op amp. w/ shutdown	1.29	1.15	1.04
279970CC	TI	TLV2451CP	DIP-8	Rail-to-rail I/O op amp. w/ shutdown	1.15	1.00	.90
272209CC	TI	TLV2454CD	SOIC-14	Rail-to-rail I/O op amp. w/ shutdown	1.95	1.76	1.59

*10 pcs. in Linear series IC cabinet kit, pg 34 **20 pcs. in Linear series IC cabinet kit, pg 34

*10 pcs. in Linear series IC cabinet kit, pg 34 **20 pcs. in Linear series IC cabinet kit, pg 34

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Op Amps (Continued)



Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
279961CC	TI	TLV2454CN	DIP-14	Rail-to-rail I/O op amp. w/ shutdown	\$2.05	\$1.83	\$1.64
310308CC	TI	TLV2474CD	SOIC-14	Quad low-pwr rail-to-rail input/output w/ shutdown	2.09	1.79	1.73
279945CC	TI	TLV2474CN	DIP-14	2.8MHz rail-to-rail I/O hi drive w/shdwn	2.05	1.74	1.57
279953CC	TI	TLV2474IN	DIP-14	2.8MHz rail-to-rail I/O hi drive w/shdwn	2.15	1.83	1.64
315096CC	+	TLC27L2BCD	SOIC-8	LinCMOS precision quad op amp	.75	.69	.68
315088CC	+	TLC27L2BCP	DIP-8	LinCMOS precision quad op amp	.69	.58	.47
315061CC	+	TLC27L4ACD	SOIC-14	LinCMOS precision dual op amp	.79	.66	.538
315053CC	+	TLC27L4ACN	DIP-14	LinCMOS precision dual op amp	.71	.60	.57
245606CC	+	LM2902M	SOIC-14	Low power quad op amplifier	.27	.24	.19
57007CC	+	LM2902N	DIP-14	Low power quad op amplifier	.25	.23	.22
245622CC	+	LM2904M	SOIC-8	Low power dual op amplifier	.25	.23	.20
121005CC	+	LM2904N	DIP-8	Low power dual op amplifier	.22	.20	.19
278141CC	TI	THS3001CD	SOIC-8	420MHz hi speed curr. feedback	5.89	5.32	4.79
12116CC	+	CA3080E	DIP-8	Op transconductance amp. (100135)	.55	.49	.34
12183CC	+	CA3130E	DIP-8	CMOS op amplifier	.81	.78	.71
12204CC	+	CA3140E	DIP-8	Bi-MOS op amplifier	.59	.55	.51
246721CC	+	MC3303D	SOIC-14	Quad op amplifier	.43	.32	.25
212193CC	+	MC3403N	DIP-14	Quad bipolar op amplifier	.26	.24	.22
246617CC	+	LM3900D	SOIC-14	Quad amplifier	.75	.63	.52
24168CC	+	LM3900N	DIP-14	Quad amplifier	.77	.65	.53
239185CC	TI	THS4031CD	SOIC-8	100MHz op-amp.	4.09	3.31	2.69
278150CC	TI	THS4032CD	SOIC-8	100MHz low noise, hi speed amp	6.49	5.31	5.26
278176CC	TI	THS4082CD	SOP-8	175MHz low noise, hi speed amp	5.69	5.14	4.63
278168CC	TI	THS4082ID	SOP-8	175MHz low noise, hi speed amp	5.89	5.32	4.79
279929CC	TI	TLV4112CD	SOIC-8	High output drive w/ shutdown	1.95	1.58	1.35
29356CC	+	RC4136N	DIP-14	Quad op amp. (XR4136)	.74	.68	.62
275741CC	+	OPA4137PA	DIP-14	Low cost FET input op amp.	2.35	2.11	1.90
121072CC	+	LM4250CN	DIP-8	Programmable op amp.	1.39	1.05	.76
251256CC	TI	TLC4501ACD	SOIC-8	Precision CMOS rail-to-rail output	2.49	2.35	2.09
300767CC	TI	TLC4501AID	SOP-8	Precision CMOS rail-to-rail output	2.59	2.20	1.73
251264CC	TI	TLC4501CD	SOIC-8	Precision CMOS rail-to-rail output	2.35	2.25	2.02
251281CC	TI	TLC4502AID	SOIC-8	Precision CMOS rail-to-rail output	3.69	3.58	3.45
310092CC	TI	TLC4502AIDSOP-8		Self-calibrating prec CMOS rail-to-rail output	3.89	3.68	3.45
251272CC	TI	TLC4502ID	SOIC-8	Precision CMOS rail-to-rail output	3.75	3.35	3.01
254861CC	+	KA4558	DIP-8	Dual op amp.	.41	.37	.33
251150CC	+	MC4558CD	SOIC-8	Wide bandwidth dual bipolar op amp.	.31	.29	.27
251125CC	+	MC4558CN	DIP-8	Wide bandwidth dual bipolar op amp.	.31	.29	.27
311933CC	+	EL5100IS	SOIC-8	200MHz slew enhanced volt feedback	2.45	2.30	2.10
311941CC	+	EL5106IS	SOIC-8	350MHz fixed gain amplifier w/ enable	2.29	2.04	1.81
311925CC	+	EL5108IS	SOIC-8	450MHz fixed gain amplifier w/ enable	2.55	2.24	1.98
252970CC	+	NE5532AP	DIP-8	Dual low noise op amp.	.69	.58	.47
27385CC	+	NE5532N*	DIP-8	Dual low noise op amp.	.72	.55	.415
27406CC	+	NE5534	DIP-8	Low noise op amp.	.78	.66	.54
193746CC	+	NE5534D	SOIC-8	Low noise op amp.	.51	.47	.445
311001CC	MCH	MCP6002-I/P	DIP-8	1MHz bandwidth low-power op amp	.45	.42	.40
310990CC	MCH	MCP6002-I/SN	SOIC-8	1MHz bandwidth low-pwr op amp	.43	.415	.40
311714CC	MCH	MCP6021-I/SN	SOIC-8	2.5V, 10MHz rail-to-rail input/output	1.27	1.16	1.10
311722CC	MCH	MCP6021-I/P	DIP-8	2.5V, 10MHz rail-to-rail input/output	1.27	1.24	1.18
266950CC	NSC	LMC6035IBP	BPA-8	Low pwr 2.7V snl supply CMOS	1.59	1.19	.87
301241CC	NSC	LMC6035IM	SOIC-8	Low pwr 2.7V single supply CMOS	2.05	1.89	1.85
267039CC	NSC	LMC6041IN	DIP-8	CMOS single micropower op amp.	1.69	1.25	.93
302121CC	NSC	LM6132AIM	SOIC-8	Dual low pwr rail-to-rail in/out, 10MHz	3.59	2.76	2.14
302105CC	NSC	LM6132BIM	SOIC-8	Dual low pwr rail-to-rail in/out, 10MHz	2.75	2.08	1.87
302113CC	NSC	LM6132BIN	DIP-8	Dual low pwr rail-to-rail in/out, 10MHz	2.69	2.25	2.09

*10 pcs. in Linear series IC cabinet kit, pg 34

Op Amps (Continued)



Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
302009CC	NSC	LM6134AIM	SOIC-14	Quad low pwr rail-to-rail in/out, 10MHz	\$3.85	\$3.19	\$2.95
302084CC	NSC	LM6134BIM	SOIC-14	Quad low pwr rail-to-rail in/out, 10MHz	3.15	2.59	2.45
302076CC	NSC	LM6134BIN	DIP-14	Quad low pwr rail-to-rail in/out, 10MHz	3.15	2.59	2.45
302068CC	NSC	LM6142AIM	SOIC-8	Dual rail-to-rail in/out, 17MHz	4.65	3.85	3.62
301997CC	NSC	LM6144BIM	SOIC-14	Quad rail-to-rail in/out, 17MHz	5.55	4.59	4.25
301989CC	NSC	LM6152ACM	SOIC-8	Dual rail-to-rail in/out, 75MHz GBW	3.99	3.29	3.10
301891CC	NSC	LM6171AIM	SOIC-8	Hi speed, low pwr, low distortion volt feedback	2.99	2.49	2.35
301882CC	NSC	LM6171BIM	SOIC-8	Hi speed, low pwr, low distortion volt feedback	2.59	2.14	2.01
301903CC	NSC	LM6171BIN	DIP-8	Hi speed, low pwr, low distortion volt feedback	2.59	1.97	1.53
311992CC	NSC	LM6181M	SOIC-8	100mA, 100MHz current feedback	2.35	1.79	1.70
301874CC	NSC	LM6181IN	DIP-8	100mA, 100MHz current feedback	2.79	2.19	1.79
267063CC	NSC	LMC6442AIM	SOIC-8	Dual μ pwr, snl supply rail-to-rail	2.39	2.06	1.85
301436CC	NSC	LMC6442IM	SOIC-8	Dual micropower rail-to-rail output single supply	2.55	1.92	1.62
301364CC	NSC	LMC6442IN	DIP-8	Dual micropower rail-to-rail output single supply	2.75	2.05	1.75
267119CC	NSC	LMC6462AIM	SOIC-8	Dual μ pwr, snl supply rail-to-rail I/O CMOS	2.39	2.16	1.95
126906CC	NSC	LMC6462AIM	DIP-8	μ power rail-to-rail I/O CMOS op amp.	2.59	2.25	2.02
126893CC	NSC	LMC6482AIM	DIP-8	CMOS dual rail-to-rail input/output	2.09	1.56	1.16
251168CC	NSC	LMC6482AIM	SOIC-8	CMOS dual rail-to-rail input/output	2.05	1.56	1.17
267127CC	NSC	LMC6482IM	SOIC-8	CMOS dual rail-to-rail I/O op amp.	1.69	1.27	.95
267223CC	NSC	LMC6482IN	DIP-8	CMOS dual rail-to-rail I/O op amp.	1.89	1.40	1.04
267240CC	NSC	LMC6484AIM	SOIC-14	CMOS quad rail-to-rail I/O op amp.	3.49	2.69	2.05
301356CC	NSC	LMC6484AIM	DIP-14	CMOS quad rail-to-rail in/out op amp	4.09	3.13	2.42
267258CC	NSC	LMC6484IM	SOIC-14	CMOS quad rail-to-rail I/O op amp.	3.79	3.41	2.35
311811CC	NSC	LMH6702MA	SOIC-8	Single ultra low-distortion, wideband	3.25	2.48	2.35
311829CC	NSC	LMH6702MF	SOT-23/5	Single ultra low-distortion, wideband	3.25	2.49	1.92
251871CC	NSC	LMC7101AIM5	SOT-23/5	Tiny low pwr w/ rail-to-rail I/O	1.69	1.25	.93
251900CC	NSC	LMC7111AIM	DIP-8	Tiny CMOS op amp w/ rail-to-rail I/O	1.55	1.14	.84
301807CC	NSC	LM7171AIM	SOIC-8	Hi speed, hi output current volt feedback	2.89	2.25	1.98
301794CC	NSC	LM7171AIN	DIP-8	Hi speed, hi output current volt feedback	2.89	2.25	1.98
301751CC	NSC	LM7171BIM	SOIC-8	Hi speed, hi output current volt feedback	2.55	2.12	1.98
301823CC	NSC	LM7171BIN	DIP-8	Hi speed, hi output current volt feedback	2.55	1.96	1.75
301840CC	NSC	LM7121IM	SOIC-8	235MHz tiny low pwr volt feedback	2.59	1.95	1.49
301701CC	NSC	LM7301IM	SOIC-8	Low pwr rail-to-rail in/out, 4MHz GBW	2.09	1.56	1.17
301655CC	NSC	LM7301IM5	SOT-23/5	Low pwr rail-to-rail in/out, 4MHz GBW	1.99	1.51	1.12
315281CC	+	ICL7611DCBA	SOIC-8	1.4MHz LP CMOS op amp	.85	.83	.79
315272CC	+	ICL7611DCPA	DIP-8	1.4MHz LP CMOS op amp	.76	.63	.58
311159CC	ADI	AD8002AR	SOIC-8	Dual 600MHz, 50mW, curr. feedback	4.85	4.19	3.95
312776CC	ADI	AD8042AR	SOIC-8	Low-cost, high speed rail-to-rail	4.65	3.58	2.97
312750CC	ADI	AD8052AR	SOIC-8	Low-cost, high speed rail-to-rail	2.55	2.08	1.75
312768CC	ADI	AD8052ARM	MSOP-8	Low-cost, high speed rail-to-rail	3.35	2.54	2.11
255257CC	ADI	AD8091AR	SOIC-8	Low cost high speed rail-to-rail	1.35	1.20	1.08
255231CC	ADI	AD8092ARM	MSOP-8	Low cost high speed rail-to-rail	1.45	1.30	1.18
311095CC	ADI	AD8307AN	DIP-8	Low-cost DC-500MHz 92dB logarithmic	9.45	7.69	7.29
311116CC	ADI	AD8307AR	SOP-8	Low-cost DC-500MHz 92dB logarithmic	9.45	7.85	7.75
255206CC	+	AD8510AR	SOIC-8	Prec. low noise/input bias curr. JFET input	2.45	2.18	1.96
279591CC	+	AD8515ART	SOT-23/5	1.8V low pwr CMOS rail-to-rail I/O	.98	.83	.67
192532CC	+	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.49	1.19	.79
277704CC	+	MC33202P	DIP-8	Low-voltage rail-to-rail op amp.	1.15	.97	.78
251117CC	+	MC34072D	SOIC-8	Single supply 3V-44V op amp.	.91	.85	.79
251061CC	+	MC34072P	DIP-8	Single supply 3V-44V op amp.	.91	.85	.79

Happen to find a like product at a lower print-advertised price?
We'll beat that price by 10% right down to our cost! Just call us.

Jameco's Low-Price Guarantee

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

Linear Series

Package (see pg 39)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
25751CC	+	MF10CN	DIP-20	General purpose dual active filter	\$3.09	\$2.37	\$1.83
16301CC	+	DS0026CN	DIP-8	Dual mos clk. driver (5MHz)(TC426CPA)	4.95	4.45	3.99
239281CC	+	DG201BDJ	DIP-16	Quad analog switch	1.39	1.07	.97
239290CC	+	DG202BDJ	DIP-16	Quad analog switch	2.75	2.47	2.23
239311CC	+	DG211BDJ	DIP-16	Quad analog switch	1.36	1.23	1.10
239329CC	+	DG211CJ	DIP-16	SPST quad channel analog switch	1.99	1.75	1.49
302332CC	+	LM231AN	DIP-8	Precision voltage to frequency con	7.35	6.99	6.62
302316CC	+	LM231N	DIP-8	Precision voltage to frequency con	5.29	4.25	3.84
302324CC	+	LM234Z-3	TO-92	3-terminal adjustable current source	2.55	1.95	1.50
302308CC	+	LM234Z-6	TO-92	3-terminal adjustable current source	1.65	1.22	.91
302295CC	+	LM236D	SOIC-8	2.5V voltage reference	.77	.72	.67
291080CC	+	LM285BYZ-1.2	TO-92	1.2V voltage reference diode, 1% tol.	1.75	1.32	1.11
297801CC	+	LM285BYZ-2.5	TO-92	2.5V voltage reference diode	1.89	1.46	1.14
312354CC	+	LM285M	SOIC-8	Adjustable micropower volt. reference	.96	.71	.527
312362CC	+	LM285M-1.2	SOIC-8	1.2V micropower volt. reference diode	.79	.71	.52
312371CC	+	LM285M-2.5	SOIC-8	2.5V micropower volt. reference diode	.79	.71	.527
291055CC	+	LM285Z-1.2	TO-92	1.2V voltage reference, 20mA	.47	.382	.336
291071CC	+	LM285Z-2.5	TO-92	2.5V voltage reference, 10mA	.67	.64	.63
245403CC	+	L298N	MW-15	Dual full-bridge driver (MULTIWATT-15 pkg.)	2.95	2.55	2.35
245446CC	+	MAX301CPE	DIP-16	Precision dual hi speed ana. switch	4.05	3.22	2.81
245456CC	+	MAX301CSE	SOIC-16	Precision dual hi speed analog switch	4.59	3.69	3.45
245462CC	+	MAX303CPE	DIP-16	Precision dual hi speed analog switch	8.79	6.91	6.22
277051CC	+	MAX303CSE	SOIC-16	Precision dual hi speed ana. switch	10.65	8.36	7.53
297828CC	+	LM331AN	DIP-8	5V precision voltage-frequency con.	6.75	6.39	6.08
23721CC	+	LM331N	DIP-8	Prec. volt. to freq. convtr. (150ppm/°C)	2.19	1.69	1.30
245729CC	+	LM334M	SOIC-8	3-terminal adjustable current source	1.12	.83	.61
23739CC	+	LM334Z	TO-92	Adjust current source	.72	.65	.47
291135CC	+	LM336BZ-2.5	TO-92	2.5V voltage reference diode	1.55	1.16	.87
297676CC	+	LM336BZ-5.0	TO-92	5V voltage reference diode	1.55	1.16	.87
193578CC	+	LM336M-2.5	SOIC-8	Precision 2.5V shunt regulator diode	1.39	1.19	.89
237711CC	+	LM336Z-2.5	TO-92	Voltage reference (2.5V)	.50	.46	.245
120871CC	+	LM385BZ-1.2	TO-92	Volt. ref. diode (1.2 ±1.5%)	.51	.45	.39
120889CC	+	LM385BZ2.5	TO-92	Volt. ref. diode (2.5V±1.5%)	.51	.47	.42
24117CC	+	LM385Z12	TO-92	Micropower volt. ref. diode (1.2V)	.49	.45	.40
24109CC	+	LM385Z-2.5	TO-92	Volt. ref. diode (2.5V±3%)	.57	.55	.395
23000CC	+	LF398N	DIP-8	Sample and hold circuit	1.09	1.00	.75
309833CC	+	DG403DJ	DIP-16	Improved, dual, high-speed analog switch	3.75	3.54	3.31
245454CC	+	DG403DY	SOIC-16	Improved dual hi speed analog switch	1.69	1.14	1.02
245489CC	+	DG405DJ	DIP-16	Improved dual hi speed analog switch	3.25	2.97	2.56
256541CC	+	DG406DJ	DIP-28	Imprvd 16-ch/dual 8-ch CMOS analog mux.	4.15	4.05	3.89
272161CC	+	DG407DJ	DIP-28	Imprvd 16-ch/dual 8-ch CMOS analog mux.	5.69	5.11	4.61
288227CC	+	DG407DN	PLCC-28	8-channel analog multiplexer	6.69	6.34	5.45
256532CC	+	DG408DJ	DIP-16	Imprvd 8-ch/dual 4-ch CMOS analog mux.	1.65	1.55	1.46
279582CC	+	DG408DY	SOIC-16	Imprvd 8-ch/dual 4-ch CMOS analog mux.	1.59	1.55	1.27
288243CC	+	DG409BN	DIP-16	4-channel analog multiplexer	4.25	4.09	3.87
288260CC	+	DG409DJ	DIP-16	4-channel analog multiplexer	1.65	1.35	1.27
279574CC	+	DG409DY	SOIC-16	Imprvd 8-ch/dual 4-ch CMOS analog mux.	1.55	1.47	1.27
243643CC	+	DG411DJ	DIP-16	Quad precision analog switch	1.75	1.65	1.50
243651CC	+	DG411DY	SOIC-16	Quad analog switch	1.69	1.66	1.59
256516CC	+	DG412DJ	DIP-16	Improved quad SPST analog switch	2.39	1.61	1.06
245358CC	+	DG412DY	SOIC-16	Improved quad SPST analog switch	1.55	1.39	1.28
272137CC	+	DG413DY	SOIC-16	Improved quad SPST analog switch	1.49	1.43	1.37
279540CC	+	DG419DJ	DIP-8	Improved SPST/SPDT analog switch	1.95	1.73	1.69
246561CC	+	DG419DY	SOIC-8	Improved SPST/SPDT analog switch	1.19	1.12	1.08
33347CC	+	TL431CLP	TO-92	Program precision reference	.31	.265	.19
279558CC	+	DG441DJ	DIP-16	Improved quad SPST analog switch	1.65	1.48	1.22
256495CC	+	DG442DJ	DIP-16	Improved quad SPST analog switch	1.65	1.48	1.35
256508CC	+	DG442DY	SOIC-16	Improved quad SPST analog switch	1.19	1.114	1.10
256487CC	+	DG444DJ	DIP-16	Improved quad SPST analog switch	1.39	1.30	1.28
256479CC	+	DG444DY	SOIC-16	Improved quad SPST analog switch	1.25	1.19	1.09
256452CC	+	DG445DJ	DIP-16	Improved quad SPST analog switch	1.39	1.26	1.10
256444CC	+	DG445DY	SOIC-16	Improved quad SPST analog switch	1.39	1.30	1.24
33355CC	+	TL494CN	DIP-16	Control. ckt. pulse width modulated	.43	.325	.265
288391CC	+	DG506AKN	DIP-28	1-channel analog multiplexer	10.49	9.99	9.49
86799CC	+	LM555CM	SOIC-8	Timer (NE555D)	.245	.21	.185
27422CC	+	LM555CN*	DIP-8	Timer (MC1455P/NE555V)	.27	.23	.19

*20 pcs. in Linear series IC cabinet kit, pg 34

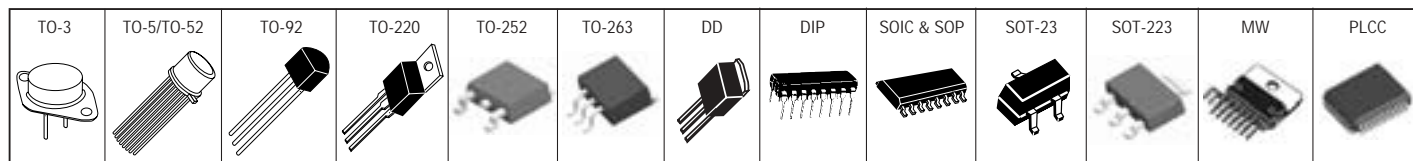
Linear Series (Continued)

Package (see pg 39)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
246676CC	+	LMC555CM	SOIC-8	CMOS 555 timer	\$6.65	\$4.7	\$3.35
126797CC	+	LMC555CN*	DIP-8	CMOS 555 timer	.54	.49	.44
193658CC	+	LM556CM	SOIC-14	Dual 555 timer	.41	.35	.26
24328CC	+	LM556N*	DIP-14	Dual 555 timer	.77	.57	.42
27457CC	+	NE558N	DIP-16	Quad timer (NE558C)	.68	.62	.52
27473CC	+	NE564N	DIP-16	High frequency phase locked loop	1.95	1.49	1.05
24352CC	+	LM565N	DIP-14	Phased locked loop	1.59	1.20	.90
193666CC	+	LM567CM	SOIC-8	Tone decoder	.35	.33	.29
24395CC	+	LM567CN	DIP-8	Tone decoder	.48	.45	.33
277691CC	+	LMC567CM	SOIC-8	Low-power tone decoder	1.65	1.29	.97
246650CC	+	LMC567CN	DIP-8	Tone decoder	1.45	1.18	1.05
243387CC	+	LMC568CN	DIP-8	Low power phase-locked loop	1.99	1.48	1.11
27490CC	+	NE571N	DIP-16	Compander, subscriber	3.29	2.99	2.69
287700CC	+	AD580JH	TO-52	2.5V volt. reference, high precision	3.45	2.89	2.42
287734CC	+	AD580LH	TO-52	2.5V volt. reference, high precision	9.49	8.05	6.91
287785CC	ADI	AD581KH	TO-5/3	10V volt. ref., hi prec., 10mV tolerance	8.89	7.54	6.32
287814CC	ADI	AD584JH	TO-99	Prog. volt. reference, 30mV tol.	6.85	5.65	4.72
288155CC	ADI	AD584KN	DIP-8	Prog. volt. reference, 11mV tol.	10.69	10.15	9.63
312012CC	ADI	AD586JN	DIP-8	High precision 5V reference	5.29	4.29	3.65
312004CC	ADI	AD586KR	SOIC-8	High precision 5V reference	7.39	5.98	5.09
115174CC	ADI	AD620AN	DIP-8	Low cost instrument amplifier	16.15	14.85	13.55
310383CC	ADI	AD622AR	SOIC-8	Low-cost instrument amplifier	5.55	4.25	3.94
115182CC	ADI	AD633JN	DIP-8	Low cost analog multiplier	7.75	6.97	6.28
241912CC	+	TC646VOA	SOIC-8	3-5V, PWM fan controller	2.55	2.27	2.05
242131CC	+	TC648VPA	DIP-8	3-5V, PWM fan controller	2.59	2.32	2.08
276509CC	+	MAX660CSA	SOIC-8	CMOS monolithic voltage converter	6.65	5.06	3.42
312194CC	+	MAX662ACPA	DIP-8	Pos. 12V 30mA flash memory prog. supply	4.05	3.37	3.20
312186CC	+	MAX662ACSA	SOIC-8	Pos. 12V 30mA flash memory prog. supply	4.09	2.79	2.20
312151CC	MAX	MAX724CCK	TO-220/5	5A/2A step-down PWM switch mode DC-DC reg	10.75	9.13	8.67
25435CC	+	MC846P	DIP-14	Quad 2-input gate	3.95	2.95	2.25
287769CC	ADI	AD851JH	TO-5/3	10V voltage reference, high precision	6.75	6.39	6.05
315969CC	+	TC962COE	SOIC-16	High current charge pump DC-DC con.	2.25	2.23	2.20
316515CC	+	TC962CPA	DIP-8	High current charge pump DC-DC con.	2.49	2.37	2.25
239257CC	+	LT1004CZ-1.2	TO-92	1.2V, micropower voltage reference	.77	.69	.63
239265CC	+	LT1004CZ-2.5	TO-92	2.5V, micropower voltage reference	.68	.52	.40
301541CC	+	LT1009CLP	TO-92	2.5V voltage reference diode	.62	.52	.42
300177CC	LTC	LT1009CZ	TO-92	2.5V voltage reference diode	2.15	1.45	1.25
300214CC	LTC	LTC1043CN	DIP-18	Dual prec. instr. switch cap. building blocks	4.65	3.15	2.75
312258CC	MAX	MAX1044CPA	DIP-8	Switched capacitor volt. converters	2.35	1.96	1.86
312240CC	MAX	MAX1044CSA	SOIC-8	Switched capacitor volt. converters	2.85	2.38	2.26
300206CC	LTC	LTC1046CS8	SOIC-8	Inductorless 5V to -5V converter	4.79	3.22	2.79
278184CC	+	TL1451ACN	DIP-16	Dual pulse-width-mod. control circuit	1.79	1.45	1.11
118578CC	+	MC1495L	DIP-14	Linear four quadrant multiplier	9.95	8.95	8.05
23211CC	+	LM1496N	DIP-14	Balanced mod./demodulator (MC1496P)	.65	.60	.54
311790CC	MCH	MCP1252-33X50	MSOP-8	Low-noise pos. regulated charge pump	2.25	2.17	2.07
314261CC	ANA	AP1501K5	TO-263/5	150kHz, 5A buck PWM DC/DC con.	2.59	2.02	1.54
314296CC	ANA	AP1501-50K5	TO-263/5	150kHz, 3A buck PWM DC/DC con.	4.05	3.15	2.39
34278CC	+	ULN2003AN*	DIP-16	Hi-volt/curr. darl. transistor array	.39	.32	.28
193826CC	+	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.39	.35	.29
34294CC	+	ULN2004AN	DIP-16	Hi-volt/curr. darl. trans. array (XR2204CP)	.35	.30	.25
241891CC	+	ML2035CP	DIP-8	Serial input prog. sine wave generator	7.89	6.15	5.53
241883CC	+	ML2036CP	DIP-14	5V, 50kHz prog. sine wave generator	16.65	14.96	13.47
34972CC	+	XR2206CP	DIP-16	Monolithic function generator	3.59	3.29	2.99
34999CC	+	XR2211N	DIP-14	FSK demodulator/tone decoder	1.79	1.59	1.39
280081CC	+	TLE2425CD	SOIC-8	Precision virtual ground	1.29	1.05	.80
280022CC	+	TLE2426CD	SOIC-8	Rail splitter precision virtual ground	1.19	.91	.82
280073CC	+	TLE2426CLP	TO-92	Rail splitter precision virtual ground	1.19	.91	.82
34315CC	+	ULN2803A*	DIP-18	Hi-volt. hi-curr. darl. transistor array	.69	.59	.49
123625CC	+	LM2907N-8	DIP-8	Frequency to volt converter	1.55	1.39	.92
23317CC	+	LM2907N	DIP-14	Frequency to volt converter	1.39	1.11	.83
245631CC	+	LM2917M	SOIC-14	Frequency to voltage converter	1.99	1.49	1.40
23350CC	+	LM2917N-8	DIP-8	Frequency to volt converter	1.89	1.46	1.31
23341CC	+	LM2917N-14	DIP-14	Frequency to volt converter	1.79	1.49	1.29
12079CC	+	CA3046N	DIP-14	NPN transistor array (ULN2046)	.45	.42	.37
12124CC	+	CA3081N	DIP-16	Common emitter NPN array (ULN2081)	.69	.59	.54
12159CC	+	CA3086N	DIP-14	Transistor array NPN (ULN2086)	.56	.52	.46

*10 pcs. in Linear series IC cabinet kit, pg 34

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table									
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI
Anachip	ANA	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST	Jameco Value Offering	+

Linear Series (Continued)

				Package (see above)			
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
12247CC	+	CA3162E	DIP-16	Dual slope & rate analog/digital con ...	\$6.79	\$6.14	\$5.53
31974CC	+	SG3524N	DIP-16	Regulating pulse width modulator .....	.53	.50	.42
235328CC	+	UC3525AN	DIP-8	SMPS Controller .....	.57	.56	.50
314181CC	ANA	AP3842S	SO-8	High perf. current mode PWM contrlr ...	.76	.64	.504
314190CC	ANA	AP3842N	DIP-8	High perf. current mode PWM contrlr ...	.65	.61	.523
243521CC	+	UC3842AN	DIP-8	30V, current mode PWM controller .....	.48	.44	.36
278926CC	+	UC3842D	SOIC-14	30V, current mode PWM controller .....	.87	.70	.53
243504CC	+	UC3843AN	DIP-8	30V, current mode PWM controller .....	.52	.45	.40
279443CC	+	UC3844D	SOIC-14	30V, current mode PWM controller .....	.44	.41	.38
243512CC	+	UC3844N	DIP-8	30V, current mode PWM controller .....	.49	.46	.42
243491CC	+	UC3845N	DIP-8	30V, current mode PWM controller .....	.46	.41	.36
279451CC	+	UC3846N	DIP-16	40V, current mode PWM controller .....	.97	.82	.65
243571CC	+	LM4040AIZ-10	TO-92	Precision micropower shunt volt. ref.	1.79	1.49	.88
243598CC	+	LM4040AIZ-2.5	TO-92	2.5V, precision micropower volt. ref.	1.09	.82	.60
243580CC	+	LM4040AIZ-5.0	TO-92	5.0V, precision micropower volt. ref.	1.79	1.68	1.11
243619CC	+	LM4040CIZ-2.5	TO-92	2.5V, precision micropower volt. ref.	1.09	.82	.60
243601CC	+	LM4040CIZ-5.0	TO-92	5.0V, precision micropower volt. ref.	1.09	.61	.43
302252CC	NSC	LM4040DIZ-2.5	TO-92	Precision micropower shunt volt ref .....	.99	.74	.54
302228CC	NSC	LM4040DIZ-5.0	TO-92	Precision micropower shunt volt ref .....	.99	.64	.39
25275CC	+	MC4044P	DIP-14	Frequency phase detector	9.99	7.49	5.25
29372CC	+	RC4151NB	DIP-8	Volt to freq. converter (XR4151)	1.29	1.19	1.09
312119CC	+	TPS6734ID	SOIC-8	Fixed 12V 120mA boost converter supply	1.95	1.89	1.81
297924CC	+	TPS6734IP	DIP-8	Fixed 12V, 120mA boost-converter supply ..	1.95	1.59	1.25
312143CC	TI	TPS6735ID	SOIC-8	Fixed neg 5V 200mA invert DC/DC con	1.95	1.88	1.81
312135CC	TI	TPS6735IP	DIP-8	Fixed neg 5V 200mA invert DC/DC con	2.15	1.74	1.37
312127CC	TI	TPS6755ID	SOIC-8	Adjustable inverting DC/DC inverter ..	2.15	1.85	1.81
288163CC	ADI	AD7501KN	DIP-16	8-channel analog multiplexer	12.15	11.55	10.98
288180CC	ADI	AD7506JN	DIP-28	16-channel analog multiplexer	14.69	13.15	11.75
51140CC	+	7555IPA	DIP-8	CMOS timer (LM555CN) .....	.33	.31	.29
51174CC	+	7660CPA	DIP-8	CMOS volt contrvr. (-5 to +5V) (M660AN)	.85	.75	.65
290301CC	+	ICL7660ACP	DIP-8	1.5V - 12V volt converter, 10kHz, supp	1.35	1.00	.869
290335CC	+	ICL7660SCP	DIP-8	1.5V - 12V volt converter, 10kHz, parr	1.59	1.16	1.06
316662CC	+	ICL7662CBA	SOIC-8	Volt converter, 20Vin, 4.5-20Vout	2.99	2.79	2.65
316646CC	+	ICL7662CPA	DIP-8	Volt converter, 20Vin, 4.5-20Vout	1.59	.92	.85
241808CC	+	ICL7665SCP	DIP-8	2-16V voltage detector	2.45	2.20	1.82
241816CC	+	ICL7673CPA	DIP-8	Auto battery backup switch, 2.5V to 15V ..	1.05	.93	.84
31879CC	+	8038CCPD	DIP-14	Precision wave form generator	3.29	3.15	2.92
516540CC	+	TC9400CPD	DIP-14	Volt-Freq / Freq-Volt converter	5.75	5.34	5.07
316531CC	+	TC9400COD	SOIC-14	Volt-Freq / Freq-Volt converter	6.35	6.03	5.73
25021CC	ON	MC14411P	DIP-24	Bit rate frequency generator	4.95	3.83	3.45
241841CC	+	MC14467	DIP-16	Smoke detector	1.35	.83	.72
25064CC	ON	MC14490P	DIP-16	Hex contact bounce eliminator	6.95	6.25	5.59
241832CC	ON	MC145012	DIP-16	Smoke detector	2.19	1.53	1.38
246713CC	ON	MC14515DW2	SOIC-28	Parallel input PLL freq. synthesizer	5.99	5.37	4.83
118586CC	ON	MC145151P	DIP-28	Parallel input PLL freq. synthesizer ...	5.85	4.97	3.73

Temperature Sensors

				Package (see above)			
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
311896CC	+	LM20BIM7	SC70-5	Micro SMD temp. sensor 2.4V 10µA	\$1.15	\$.84	\$.61
107094CC	NSC	LM34CZ	TO-92	Prec. temp. sensor (-40° to +230°F) ..	4.89	4.52	4.08
193480CC	NSC	LM34DM	SOIC-8	Prec. temp. sensor (-55° to 300°F)	1.75	1.29	.97
155192CC	NSC	LM34DZ	TO-92	Prec. temp. sensor (+32° to +212°F)	1.99	1.67	1.23
302560CC	NSC	LM35CAZ	TO-92	Precision C temp. sensor	5.19	4.14	3.55
193498CC	NSC	LM35DM	SOIC-8	Prec. temp. sensor (-55° to 150°C)	1.85	1.57	1.18

Temperature Sensors (Continued)

				Package (see above)			
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
192217CC	NSC	LM35DT	TO-220/3	Prec. temp. sensor (-55° to 150°C)	\$2.55	\$1.92	\$1.44
107107CC	NSC	LM35CZ	TO-92	Prec. temp. sensor (-40° to 110°C)	5.35	4.10	3.16
155740CC	NSC	LM35DZ	TO-92	Prec. temp. sensor (0° to +100°C) ..	1.79	1.35	1.25
278361CC	ADI	TMP36FS	SOIC-8	Low voltage temperature sensor .....	.85	.77	.69
278395CC	ADI	TMP36GS	SOIC-8	Low voltage temperature sensor .....	.63	.54	.49
278387CC	ADI	TMP36GT9	TO-92	Low voltage temperature sensor	1.09	.92	.83
302164CC	NSC	LM50BIM3	SOT-23	Single supply C temp. sensor	1.45	1.10	.82
302172CC	NSC	LM50CIM3	SOT-23	Single supply C temp. sensor .....	.99	.74	.54
302148CC	NSC	LM56BIM	SOIC-8	Dual output low-power thermo, dig-out ...	2.29	1.71	1.37
302130CC	NSC	LM56BIMM	MSOP-8	Dual output low-power thermo, dig-out ...	3.39	3.21	3.05
302156CC	+	LM61BIM3	SOT-23	2.7V analog temperature sensor	1.29	1.12	1.05
302092CC	+	LM61CIZ	TO-92	2.7V analog temperature sensor .....	.95	.80	.75
311870CC	NSC	LM70CIMM-3	MSOP-8	SPI/Microwire 10-bit plus design sensor	1.69	1.27	.95
311888CC	NSC	LM70CIMM-5	MSOP-8	SPI/Microwire 10-bit plus design sensor	1.69	1.27	.95
301639CC	NSC	LM74CIBP-3	MICROSMD-5	12-bit + sign digital temp. sensor ..	2.29	1.71	1.44
301604CC	NSC	LM74CIBP-5	MICROSMD-5	12-bit + sign digital temp. sensor ..	2.29	1.71	1.44
301621CC	NSC	LM74CIM-3	SOIC-8	12-bit + sign digital temp. sensor	1.89	1.42	1.19
301583CC	NSC	LM74CIM-5	SOIC-8	12-bit + sign digital temp. sensor	1.89	1.41	1.19
311853CC	NSC	LM75CIM-3	SOIC-8	Digital temp sensor/thermal watchdog ...	1.65	1.32	1.17
311845CC	NSC	LM75CIM-5	SOIC-8	Digital temp sensor/thermal watchdog ...	1.65	1.32	1.17
301567CC	NSC	LM77CIM-3	SOIC-8	9-bit + sign digital window comp	2.15	1.61	1.39
301575CC	NSC	LM77CIMM-3	MSOP-8	9-bit + sign digital window comp	2.65	2.55	2.45
282028CC	+	LM135H	TO-46	Precision temperature sensor	8.55	7.67	6.91
128020CC	+	LM335AZ	TO-92	Precision temperature sensor .....	.81	.75	.71
193560CC	+	LM335M	SOIC-8	Precision temperature sensor	1.10	.94	.69
23755CC	+	LM335Z	TO-92	Volt mode temperature sensor .....	.67	.61	.44
241939CC	+	AD590JH	TO-52/3	Two terminal IC temp. transducer ..	6.85	6.49	6.19
313306CC	+	AD594AQ	DIP-14	Mono thermocouple amp w/ junction	10.39	10.22	10.05
313293CC	+	AD595AQ	DIP-14	Mono thermocouple amp w/ junction	13.55	11.89	10.35
316970CC	+	TC620CCPA	DIP-8	5V dual trip point temp. sensor	1.75	1.69	1.64
302551CC	+	DS18S20	SOIC-8	High-precision 1-wire digital thermo ..	4.49	3.56	3.21
287371CC	+	AD7814ARM	MSOP-8	10-bit digital temp. sensor	2.09	1.99	1.90

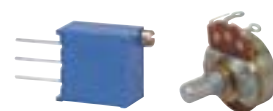
Hall Sensors

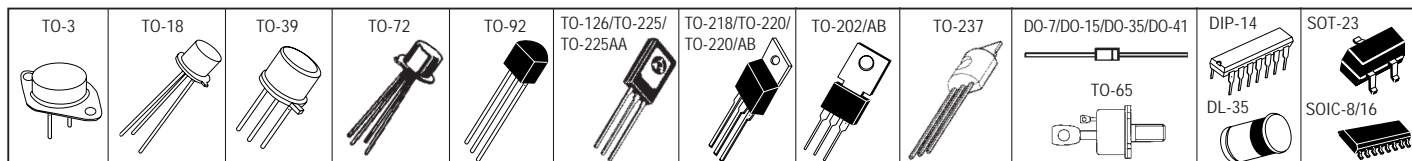
Part No.	Cross Ref.	Pkg.	Description	1	10	100
319089CC	ATS137M	SIP-3	Sgl out hall effect switch 25mA	\$1.79	\$1.57	\$1.31
319097CC	AH175P	SIP-3	Sgl out hall effect latch 25mA	1.79	1.57	1.31
319100CC	AH182P	SIP-3	Sgl out hall effect switch 25mA .....	.72	.65	.504
319118CC	AH182W	SOT-23/3	Sgl out hall effect switch 25mA .....	.72	.65	.494

Digital Potentiometers

Part No.	Cross Ref.	Pkg.	Description	1	10	100
241744CC	MCP41010-I/P	DIP-8	10kΩ, 256 steps, SPI digital pot	\$1.59	\$1.30	\$1.25
241761CC	MCP41050-I/P	DIP-8	50kΩ, 256 steps, SPI digital pot	1.85	1.55	1.35
241787CC	MCP41100-I/P	DIP-8	100kΩ, 256 steps, SPI digital pot	1.75	1.55	1.39
241752CC	MCP42010-I/P	DIP-14	10kΩ, 256 steps, 2-ch, SPI digital pot	2.39	1.89	1.87
241779CC	MCP42050-I/P	DIP-14	50kΩ, 256 steps, 2-ch, SPI digital pot	2.39	2.09	1.99
241795CC	MCP42100-I/P	DIP-14	100kΩ, 256 steps, 2-ch, SPI digital pot	2.59	2.33	2.10

See pages 66 – 68 for our
complete selection of
Potentiometers.





Transistors

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Desc.	V _{CE0}	Min.	(I _{FE} @ I _C)	1	10	100	1000
214834CC	MMBTA05	♦	SOT-23	NPN	60	—	.....	\$.05	\$.04	\$.03	
297799CC	MPSA05	♦	TO-92	NPN	60	100 @ .01A	.....	\$.075	.064	.034	
214842CC	MMBTA06	♦	SOT-23	NPN	80	100 @ .01A	.....	\$.05	.04	.03	
26462CC	MPSA06*	♦	TO-92	NPN	30	50 @ .01A	.....	\$.054	.047	.026	
288930CC	MPSH10	♦	TO-92	NPN	25	60 @ .004A	.....	\$.10	.059	.043	
214851CC	MMBTA13	♦	SOT-23	NPN	30	5k @ .01A	.....	\$.057	.039	.026	
26489CC	MPSA13*	♦	TO-92	NPN	30	5k @ .01A	.....	\$.091	.042	.034	
214869CC	MMBTA14	♦	SOT-23	NPN	30	10k @ .01A	.....	\$.04	.032	.024	
210593CC	MPSA14	♦	TO-92	NPN	30	20k @ .10A	.....	\$.083	.067	.038	
210681CC	MPSA18	♦	TO-92	NPN	45	500 @ .001A	.....	\$.083	.062	.043	
288850CC	MPSA29	♦	TO-92	NPN	100	10k @ .1A	.....	\$.10	.059	.044	
33021CC	TIP29A	♦	TO-220	NPN	60	15 @ .1A	.....	\$.44	.42	.39	.32
297781CC	TIP29C	♦	TO-220	NPN	100	40 @ .2A	.....	\$.25	.208	.195	.17
33030CC	TIP30A	♦	TO-220	PNP	60	15 @ .1A	.....	\$.52	.49	.39	.30
179346CC	TIP30C	FSC	TO-220	PNP	100	15 @ .1A	.....	\$.27	.25	.23	.22
33048CC	TIP31A*	♦	TO-220	NPN	60	10 @ .3A	.....	\$.49	.39	.35	.29
179354CC	TIP31C	FSC	TO-220	NPN	100	10 @ .3A	.....	\$.42	.33	.29	.205
33064CC	TIP32A*	♦	TO-220	PNP	60	10 @ .3A	.....	\$.39	.36	.335	.285 .185
181841CC	TIP32C	♦	TO-220	PNP	100	10 @ .3A	.....	\$.34	.30	.25	.22
33081CC	TIP41A	♦	TO-220	NPN	60	15 @ .3A	.....	\$.58	.49	.445	.42
179371CC	TIP41C	FSC	TO-220	NPN	100	15 @ .3A	.....	\$.52	.39	.29	.185
214885CC	MMBTA42	♦	SOT-23	NPN	300	40 @ .01A	.....	\$.065	.057	.04	
178546CC	MPSA42	♦	TO-92	NPN	30	40 @ .03A	.....	\$.081	.073	.062	
33101CC	TIP42A	♦	TO-220	PNP	60	15 @ .3A	.....	\$.49	.42	.35	.29
139580CC	TIP42C	♦	TO-220	PNP	100	15 @ .3A	.....	\$.49	.45	.38	.31
179389CC	TIP42C	FSC	TO-220	PNP	100	15 @ .3A	.....	\$.54	.49	.44	.25
288614CC	TIP47	♦	TO-220	NPN	250	30 @ .3A	.....	\$.48	.357	.202	.166
288631CC	TIP48	♦	TO-220	NPN	300	30 @ .3A	.....	\$.49	.291	.265	.238
214906CC	MMBTA55	♦	SOT-23	PNP	60	100 @ .01A	.....	\$.045	.036	.027	
214914CC	MMBTA56	♦	SOT-23	PNP	80	100 @ .01A	.....	\$.72	.058	.044	
210606CC	MPSA56	♦	TO-92	NPN	80	100 @ .10A	.....	\$.079	.059	.034	
214922CC	MMBTA63	♦	SOT-23	PNP	30	5k @ .01A	.....	\$.05	.04	.03	
288921CC	MPSA63	♦	TO-92	PNP	30	10k @ .1A	.....	\$.075	.042	.03	
214931CC	MMBTA64	♦	SOT-23	PNP	30	10k @ .01A	.....	\$.047	.04	.03	
120221CC	BPW77NA	♦	TO-18	NPN	70	—	.....	1.59	1.55	1.49	1.39
178554CC	MPSA92	♦	TO-92	PNP	300	25 @ .003A	.....	\$.11	.075	.049	
214957CC	MMBTA92	♦	SOT-23	PNP	300	40 @ .01A	.....	\$.058	.047	.035	
214033CC	MPSA93	♦	TO-92	PNP	200	25 @ .03A	.....	\$.045	.041	.038	
277413CC	PN100	♦	TO-92	NPN	45	100 @ .15A	.....	\$.045	.032	.027	
288420CC	TIP100	♦	TO-220	NPN	60	1k @ .3A	.....	\$.52	.43	.27	.22
297772CC	TIP101	♦	TO-220	NPN	80	1k @ .3A	.....	\$.60	.54	.46	.41
32977CC	TIP102*	♦	TO-220	NPN	100	1k @ .3A	.....	\$.57	.49	.41	.245
179240CC	TIP102	FSC	TO-220	NPN	100	1k @ .3A	.....	\$.53	.37	.33	.295
288462CC	TIP105	♦	TO-220	PNP	60	1k @ .3A	.....	\$.41	.398	.319	.264
32985CC	TIP106	♦	TO-220	PNP	80	1k @ .3A	.....	\$.85	.75	.69	.55
179258CC	TIP107	FSC	TO-220	PNP	100	1k @ .3A	.....	\$.52	.46	.38	.305
288471CC	TIP110	♦	TO-220	NPN	60	1k @ .1A	.....	\$.48	.457	.37	.23
288500CC	TIP111	♦	TO-220	NPN	80	1k @ .1A	.....	\$.50	.45	.43	.365
288518CC	TIP112	♦	TO-220	NPN	100	1k @ .1A	.....	\$.51	.44	.38	.23
288526CC	TIP115	♦	TO-220	PNP	60	1k @ .1A	.....	\$.48	.37	.20	.17
288542CC	TIP117	♦	TO-220	PNP	100	1k @ .1A	.....	\$.50	.375	.295	.245
32993CC	TIP120*	♦	TO-220	NPN	60	1k @ .3A	.....	\$.49	.45	.39	.27
179291CC	TIP120	FSC	TO-220	NPN	60	1k @ .3A	.....	\$.59	.51	.42	.257
288585CC	TIP121	♦	TO-220	NPN	80	1k @ .5A	.....	\$.49	.375	.31	.27
120416CC	TIP122	♦	TO-220	NPN	100	1k @ .3A	.....	\$.42	.37	.35	.285

♦ Jameco Value Offering FSC = Fairchild Semiconductor

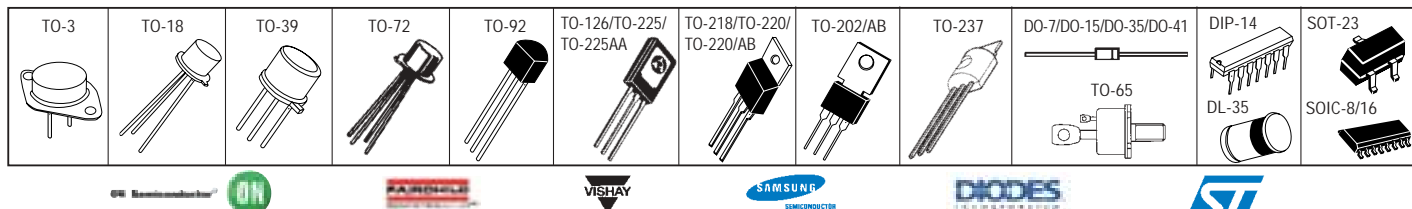
* 10 pcs. in Transistor cabinet kit, pg 41 ** 100 pcs. in Transistor cabinet kit, pg 41

Transistors (Continued)

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Desc.	V _{CE0}	Min.	(I _{FE} @ I _C)	1	10	100	1000
179303CC	TIP122	FSC	TO-220	NPN	100	1k @ .3A	.....	\$.55	\$.42	\$.32	\$.195
33013CC	TIP125	◆	TO-220	PNP	60	1k @ .3A	.....	.49	.45	.29	.26
288606CC	TIP126	◆	TO-220	PNP	80	1k @ .5A	.....	.49	.375	.285	.17
277886CC	MJE172	◆	TO-225	PNP	80	30 @ .50A	.....	.32	.30	.29	.21
277341CC	PN200	◆	TO-92	PNP	45	100 @ .15A	.....	*	.09	.06	.045
254772CC	BD237	◆	TO-126	NPN	80	40 @ .15A	.....	.41	.40	.38	.28
254810CC	BC337	◆	TO-92	NPN	45	100 @ .10A	.....	*	.174	.114	.058
211529CC	MJE340	◆	TO-225	NPN	300	30 @ .05A	.....	.34	.30	.26	.22
211537CC	MJE350	◆	TO-225	PNP	300	30 @ .05A	.....	.41	.36	.306	.23
255994CC	BU406	◆	TO-220	NPN	200	—	.....	1.17	1.02	.89	.83
272031CC	BU407	◆	TO-220	NPN	150	—	.....	.91	.81	.77	.61
256073CC	BD438	◆	TO-225	PNP	45	30 @ .01A	.....	.39	.36	.34	.27
254801CC	BC547B	◆	TO-92	NPN	45	330 @ .002A	.....	*	.075	.067	.051
254799CC	BC547C	◆	TO-92	NPN	45	600 @ .002A	.....	*	.08	.075	.05
254781CC	BC548B	◆	TO-92	NPN	30	110 @ .002A	.....	*	.085	.075	.05
309825CC	BD681	◆	TO-225	NPN	100	750 @ .2A	.....	.49	.481	.285	.212
256065CC	BD682	◆	TO-225	PNP	100	750 @ 1.5A	.....	.39	.38	.36	.21
211545CC	MJE700	◆	TO-225	PNP	60	750 @ 1.5A	.....	.38	.32	.29	.25
211553CC	MJE800	◆	TO-225	NPN	60	750 @ 1.5A	.....	.28	.26	.23	.195
213920CC	MMBT918	◆	SOT-23	NPN	15	20 @ .003A	.....	*	.11	.075	.056
194327CC	2N2102	◆	TO-39	NPN	65	40 @ .15A	.....	.42	.41	.39	.29
38228CC	2N2219A	◆	TO-39	PNP	40	100 @ .15A	.....	.41	.37	.31	.28
94941CC	MMBT2222	◆	SOT-23	NPN	30	100 @ .15A	.....	.22	.045	.034	.028
26446CC	MPQ2222	◆	DIP-14	NPN	40	100 @ .15A	.....	2.45	2.19	1.99	1.85
28628CC	PN2222**	◆	TO-92	NPN	30	100 @ .15A	.....	*	.065	.041	.025
213938CC	MMBT2222A	◆	SOT-23	NPN	40	100 @ .15A	.....	*	.045	.035	.019
213997CC	MMPQ2222A	◆	SOIC-16	NPN	40	100 @ .15A	.....	.95	.81	.76	.61
210673CC	MPS2222A	◆	TO-92	NPN	40	40 @ .50A	.....	*	.049	.045	.034
178511CC	PN2222A	◆	TO-92	NPN	40	100 @ .15A	.....	*	.12	.08	.04
38236CC	2N2222A*	◆	TO-18	NPN	40	100 @ .15A	.....	.39	.35	.29	.25
214658CC	MMBT2369	◆	SOT-23	PNP	25	60 @ .05A	.....	*	.054	.043	.032
213946CC	MMBT2369A	◆	SOT-23	NPN	15	40 @ .01A	.....	*	.04	.032	.024
26526CC	MPS2369	◆	TO-92	NPN	15	20 @ .10A	.....	*	.066	.042	.032
211334CC	MPS2369A	◆	TO-92	NPN	15	20 @ .10A	.....	*	.071	.064	.048
194378CC	2N2905A	◆	TO-39	PNP	60	100 @ .15A	.....	.45	.40	.35	.315
94959CC	MMBT2907	◆	SOT-23	PNP	40	100 @ .15A	.....	.22	.068	.041	.026
26454CC	MPQ2907	◆	DIP-14	PNP	40	100 @ .15A	.....	2.19	1.85	1.35	.99
28644CC	PN2907**	◆	TO-92	PNP	40	100 @ .15A	.....	*	.125	.09	.045
213954CC	MMBT2907A	◆	SOT-23	PNP	60	100 @ .01A	.....	*	.054	.043	.032
214009CC	MMPQ2907A	◆	SOIC-16	PNP	60	100 @ .01A	.....	.79	.71	.57	.43
211342CC	MPS2907A	◆	TO-92	PNP	60	100 @ .15A	.....	*	.048	.04	.036
178520CC	PN2907A	◆	TO-92	PNP	60	100 @ .15A	.....	*	.058	.042	.034
38279CC	2N2907A*	◆	TO-18	PNP	60	100 @ .15A	.....	.36	.34	.31	.25
211377CC	TIP2955	◆	TO-218	PNP	60	5 @ .001A	.....	1.05	.94	.76	.71
211502CC	MJ2955	◆	TO-3	PNP	60	20 @ .4A	.....	.69	.62	.56	.51
25831CC	MJE2955T	◆	TO-220	PNP	60	20 @ .4A	.....	.51	.44	.39	.37
38295CC	2N3053*	◆	TO-39	NPN	40	25 @ .15A	.....	.47	.43	.40	.37
211385CC	TIP3055	◆	TO-218	NPN	60	5 @ .001A	.....	1.05	.90	.81	.74
38308CC	2N3055*	◆	TO-3	NPN	60	15 @ .10A	.....	.95	.85	.72	.63
211406CC	2N3055A	◆	TO-3	NPN	60	20 @ .4A	.....	1.55	1.40	1.07	.92
25857CC	MJE3055T	◆	TO-220	NPN	60	20 @ .4A	.....	.51	.44	.395	.365
194415CC	2N3439	◆	TO-39	NPN	350	40 @ .02A	.....	.56	.48	.43	.40
194458CC	2N3700	◆	TO-18	NPN	80	100 @ .15A	.....	.47	.42	.34	.25
209242CC	2N3771	◆	TO-3	NPN	40	15 @ .15A	.....	1.89	1.75	1.55	1.39
38324CC	2N3772	◆	TO-3	NPN	40	15 @ .10A	.....	1.95	1.65	1.48	1.38



Transistors (Continued)

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Desc.	V _{CEO} Min.	(h _{FE} @ I _C)	1	10	100	1000
140151CC	2N3773	♦	TO-3	NPN	140	15 @ .8A	\$2.45	\$2.32	\$2.26	\$2.07
62279CC	2N3903	♦	TO-92	NPN	40	50 @ .01A	.....*	.09	.05	.043
94967CC	MMBT3904	♦	SOT-23	NPN	40	100 @ .01A	.....*	.042	.034	.023
211351CC	MPS3904	♦	TO-92	NPN	40	100 @ .001A	.....*	.075	.058	.044
38359CC	2N3904**	♦	TO-92	NPN	40	100 @ .01A	.....*	.069	.057	.035
178597CC	2N3904	FSC	TO-92	NPN	40	100 @ .01A	.....*	.09	.06	.048
62287CC	2N3905	♦	TO-92	PNP	40	50 @ .01A	.....*	.10	.074	.04
94975CC	MMBT3906	♦	SOT-23	PNP	40	100 @ .01A	.....*	.042	.038	.023
214017CC	MMMQ3906	♦	SOIC-16	PNP	40	75 @ .01A	.....1.35	1.25	1.17	.68
38375CC	2N3906**	♦	TO-92	PNP	40	100 @ .01A	.....*	.05	.04	.03
178618CC	2N3906	FSC	TO-92	PNP	40	100 @ .01A	.....*	.085	.045	.035
194466CC	2N4033	♦	TO-39	PNP	80	100 @ .10A	......62	.54	.48	.44
38404CC	2N4123	♦	TO-92	NPN	30	25 @ .05A	.....*	.12	.088	.066
214674CC	MMBT4124	♦	SOT-23	PNP	25	60 @ .05A	.....*	.04	.032	.024
62295CC	2N4124	♦	TO-92	NPN	25	60 @ .05A	.....*	.044	.034	.025
214682CC	MMBT4126	♦	SOT-23	PNP	25	60 @ .05A	.....*	.042	.034	.026
214623CC	2N4126	♦	TO-92	PNP	25	60 @ .05A	.....*	.05	.04	.03
253411CC	2N4400	♦	TO-92	NPN	40	50 @ .15A	.....*	.042	.03	.027
214703CC	MMBT4401	♦	SOT-23	NPN	40	80 @ .01A	.....*	.044	.034	.021
38421CC	2N4401*	♦	TO-92	NPN	40	100 @ .15A	.....*	.08	.06	.05
214720CC	MMBT4403	♦	SOT-23	PNP	40	60 @ .001A	.....*	.045	.042	.032
38447CC	2N4403*	♦	TO-92	PNP	40	100 @ .15A	.....*	.07	.065	.048
211511CC	2N4410	♦	TO-92	NPN	80	60 @ .01A	.....*	.14	.10	.075
277755CC	MJ4502	♦	TO-3	PNP	90	25 @ 7.5A	... 3.45	3.07	2.76	2.49
211465CC	2N4920	♦	TO-225	PNP	80	30 @ .50A	... 3.31	.29	.285	.28
211490CC	2N4923	♦	TO-225	NPN	80	30 @ .50A	......45	.365	.336	.302
310666CC	2N5038	♦	TO-3	NPN	150	20 @ 12A	..... 6.35	5.29	4.55	3.89
213962CC	MMBT5087	♦	SOT-23	PNP	50	250 @ .01A	.....*	.042	.036	.027
210631CC	2N5087	♦	TO-92	PNP	50	250 @ .10A	.....*	.025	.022	.02
213971CC	MMBT5088	♦	SOT-23	NPN	30	300 @ .01A	.....*	.061	.04	.03
62316CC	2N5088	♦	TO-92	NPN	30	300 @ .10A	.....*	.05	.049	.041
214746CC	MMBT5089	♦	SOT-23	NPN	25	400 @ .01A	.....*	.124	.097	.073
62324CC	2N5089	♦	TO-92	NPN	25	400 @ .10A	.....*	.07	.048	.035
38480CC	PN5179	♦	TO-92	NPN	15	25 @ .003A	.....*	.12	.11	.10
140373CC	2N5179	♦	TO-72	NPN	12	25 @ .003A	... .65	.55	.49	.45
209251CC	2N5191	♦	TO-225	NPN	60	25 @ 1.5A	......41	.37	.33	.30
209269CC	2N5194	♦	TO-225	PNP	60	25 @ 1.5A	... 3.34	.30	.28	.23
38501CC	2N5195	♦	TO-225	PNP	80	20 @ 1.5A	......39	.35	.28	.21
253930CC	2N5400	♦	TO-92	PNP	120	40 @ .010A	.....*	.075	.059	.037
214754CC	MMBT5401	♦	SOT-23	PNP	150	40 @ .001A	.....*	.05	.042	.032
210649CC	2N5401	♦	TO-92	PNP	150	60 @ .01A	.....*	.066	.05	.037
214762CC	MMBT5550	♦	SOT-23	NPN	140	60 @ .01A	.....*	.057	.045	.026
253569CC	2N5550	♦	TO-92	NPN	140	60 @ .010A	.....*	.23	.15	.054
214771CC	MMBT5551	♦	SOT-23	NPN	140	80 @ .01A	.....*	.058	.042	.03
210657CC	2N5551	♦	TO-92	NPN	160	80 @ .01A	.....*	.059	.05	.043
209277CC	2N5657	♦	TO-126	NPN	350	30 @ .10A	......45	.415	.375	.35
253438CC	2N5884	♦	TO-3	PNP	80	4 @ 25A	..... 2.29	2.15	1.60	1.47
254764CC	2N5886	♦	TO-3	NPN	80	20 @ 10A	..... 2.29	2.09	1.59	1.28
194571CC	2N6042	♦	TO-220	PNP	100	1k @ 3A	......59	.47	.42	.35
194589CC	2N6045	♦	TO-220	NPN	100	1k @ 3A	......44	.40	.34	.31
194597CC	2N6052	♦	TO-3	PNP	100	750 @ 6A	..... 1.65	1.47	1.32	1.19
194600CC	2N6059	♦	TO-3	NPN	100	750 @ 6A	..... 1.59	1.55	1.36	1.12
255011CC	2N6292	♦	TO-220	NPN	70	30 @ 2A	......57	.52	.48	.41
213989CC	MMBT6427	♦	SOT-23	NPN	40	10k @ .01A	.....*	.063	.057	.028

♦ Jameco Value Offering FSC = Fairchild Semiconductor

* 10 pcs. in Transistor cabinet kit, see right ** 100 pcs. in Transistor cabinet kit, see right

Transistors (Continued)

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Desc.	V _{CEO} Min.	(h _{FE} @ I _C)	1	10	100	1000
255003CC	2N6427	♦	TO-92	NPN	40	10k @ .01A	... \$33	\$22	\$15	\$035
288817CC	MPS6521	♦	TO-92	NPN	25	300 @ 0.002A	.....*	.137	.114	.075
288833CC	MPS6531	♦	TO-92	NPN	40	60 @ 0.01A	......21	.166	.076	.051
194618CC	2N6547	♦	TO-3	NPN	400	12 @ 5A	..... 3.45	2.96	2.90	2.83
194626CC	2N6678	♦	TO-3	NPN	400	8 @ 15A	..... 6.79	6.15	5.75	4.49
214025CC	MMMQ6700	♦	SOIC-16	NPN/PNP	40	70 @ .01A	......85	.76	.61	.46
140134CC	2N6725	♦	TO-237	NPN	50	25k @ .20A	......55	.45	.36	.29
277771CC	MJE13005	♦	TO-220	NPN	400	8 @ 2A	......80	.71	.54	.32
277798CC	MJE15029	♦	TO-220	PNP	120	40 @ 2A	......81	.75	.69	.64
277851CC	MJE15031	♦	TO-220	PNP	150	40 @ 2A	......89	.80	.72	.65

♦ Jameco Value Offering

Transistor Assortment Cabinet Kit

Includes:

20 drawer component cabinet (319599CC),

20 clear plastic drawers (319601CC),

20 clear dividers (319610CC), pg 131 and

30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

100 each: 2N3904, 2N3906, PN2222, PN2907

Part No.	Description	Wt. (lbs.)	1	10
82595CC	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$82.95	\$74.65
130374CC	Refill for 82595CC (560 pcs.)	0.4	69.95	62.95

J-FETs

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Desc.	BV _{GS} @ I _{GS}	Loss (mA) @ V _{DS}	1	10	100	1000
26403CC	MPF102*	♦	TO-92	N-Ch	25 @ 1	20 @ 15	.....*	\$155	\$11	\$08
211393CC	J111	♦	TO-92	N-Ch	35 @ 1	20 @ 15	......20	.17	.12	.11
140450CC	J112	♦	TO-92	N-Ch	35 @ 1	5 @ 15	.....*	.15	.105	.072
140142CC	J176	♦	TO-92	P-Ch	30 @ 1	2 @ 25	......33	.29	.21	.17
211414CC	J177	♦	TO-92	P-Ch	30 @ 1	20 @ 15	......29	.22	.16	.11
253921CC	2N5458	♦	TO-92	N-Ch	25 @ 0.1	—	......29	.23	.18	.16
210622CC	2N3819	♦	TO-92	N-Ch	25 @ 1	20 @ 15	.....*	.085	.059	.055
38341CC	2N3823	♦	TO-72	N-Ch	30 @ 1	20 @ 15	... 1.35	1.19	1.05	.99
38527CC	2N5951*	♦	TO-92	N-Ch	30 @ 1	13 @ 15	......69	.64	.44	.39

♦ Jameco Value Offering * 10 pcs. in Transistor cabinet kit, above

N-Channel/P-Channel MOSFETs

Package (see above)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Desc.	Min. On-St. BV _{DS}	DS Current	1	10	100	1000
256014CC	BSS138	♦	SOT-23	N-Ch	50V	0.2A	.....*	\$11	\$075	\$055
256031CC	BS170	♦	TO-92	N-Ch	60V	—	.....*	.10	.07	.06
256057CC	BS250	♦	TO-92	P-Ch	45V	—	......37	.34	.30	.20
209234CC	IRF510	♦	TO-220	N-Ch	100V	5.6A	......69	.59	.55	.49
209226CC	IRF520	♦	TO-220	N-Ch	100V	10.0A	......55	.48	.45	.40
209058CC	IRL520L	♦	TO-220	N-Ch	100V	10.0A	......77	.55	.46	.44
210500CC	IRF530	♦	TO-220	N-Ch	100V	14.0A	......66	.57	.52	.49
210518CC	IRF540	♦	TO-220	N-Ch	100V	27.0A	..... 1.05	.95	.89	.75
210526CC	IRF620	♦	TO-220	N-Ch	200V	6.0A	......45	.42	.35	.32
210534CC	IRF630	♦	TO-220	N-Ch	200V	9.0A	......75	.65	.58	.43
210542CC	IRF640	♦	TO-220	N-Ch	200V	18.0A	......69	.65	.57	.49

♦ Jameco Value Offering

N-Channel/P-Channel MOSFETs (Con't)

Package (see pg 41)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Desc.	Min. On-St. DS Current	1	10	100	1000
210551CC	IRF730	♦	TO-220	N-Ch	400V	5.5A \$.89	\$.75	\$.67	\$.63
210569CC	IRF740	♦	TO-220	N-Ch	400V	10.0A 1.25	1.10	.89	.80
210577CC	IRF820	♦	TO-220	N-Ch	500V	4.0A ..... .65	.59	.47	.35
210585CC	IRF830	♦	TO-220	N-Ch	500V	4.5A ..... .77	.70	.62	.58
184719CC	IRF840	♦	TO-220	N-Ch	500V	8.0A 1.49	1.29	.99	.89
279460CC	VN2222LL	♦	TO-92	N-Ch	60V	.75A ..... .23	.20	.16	.14
279486CC	VN2410L	♦	TO-92	N-Ch	240V	1.0A ..... .45	.405	.364	.328
279478CC	VN2406L	♦	TO-92	N-Ch	240V	1.0A ..... .44	.35	.27	.17
255020CC	SI4410DY	♦	SOIC-8	N-Ch	30V	20A ..... .89	.73	.52	.50
255038CC	SI4420DY	♦	SOIC-8	N-Ch	30V	30A 1.79	1.75	1.69	1.29
255046CC	SI4435DY	♦	SOIC-8	P-Ch	-30V	-40A ..... .85	.71	.52	.42
255054CC	SI4463DY	♦	SOIC-8	P-Ch	-20V	-30A 1.65	1.55	1.49	1.17
255062CC	SI4467DY	♦	SOIC-8	P-Ch	-12V	-20A 1.59	1.45	1.24	1.02
255071CC	SI4884DY	♦	SOIC-8	N-Ch	30V	40A ..... .59	.57	.55	.53
255089CC	SI4963DY	♦	SOIC-8	Dual P-Ch	-20V	-20A 1.45	1.32	1.19	1.09
253948CC	2N5457	♦	TO-92	N-Ch	-25V	—20	.18	.126	.102
253913CC	2N5460	♦	TO-92	P-Ch	40V	—34	.28	.22	.19
253905CC	2N5461	♦	TO-92	P-Ch	40V	—26	.19	.16	.13
253892CC	2N5462	♦	TO-92	P-Ch	40V	— *	.089	.081	.073
253884CC	2N5484	♦	TO-92	N-Ch	-25V	— *	.13	.09	.052
253585CC	2N5485	♦	TO-92	N-Ch	-25V	—23	.20	.18	.13
253577CC	2N5486	♦	TO-92	N-Ch	-25V	— *	.18	.15	.11
253542CC	2N5639	♦	TO-92	N-Ch	30V	0.05A ..... .20	.175	.125	.065
178669CC	2N7000*	FSC	TO-92	N-Ch	60V	0.2A ..... .23	.19	.13	.11
119423CC	2N7000	♦	TO-92	N-Ch	60V	0.3A *	.11	.10	.09
140169CC	2N7002	♦	SOT-23	N-Ch	60V	0.5A *	.08	.06	.033

♦ Jameco Value Offering FSC = Fairchild Semiconductor *10 pcs. in Transistor cabinet kit, pg 41

For Heat Sink Mounting Kits and Compound see page 224.



Thermalloy

IERC

Heat Sinks

AAVID

Wakefield

Our TO-3 & TO-220 heat sinks are made from black anodized aluminum (except for P/N 107297CC which is light weight aluminum). They can be mounted horizontally or vertically depending on your applications. P/N 42622CC and 228005CC can be mounted vertically with solderable mounting tabs.



16512CC



189835CC



151546CC



42622CC/228005CC



40504CC



158051CC



70914CC



70658CC



129242CC



107297CC

Part No.	Cross Ref. No.	Type	Watts	Size (L"xW"xH")	1	10	100	1000
16512CC	DUDE4	TO-3	30.0	4.8x1.5x1.3	\$2.95	\$2.75	\$2.49	\$2.25
189835CC	635-5B2	TO-3	8.0	1.9x1.4x0.5	..... .95	.86	.68	.51
151546CC	635-125B2	TO-3	8.0	1.9x1.4x1.3	..... .99	.89	.67	.60
42622CC	563002B00000	TO-220	3.9	1.2x1.0x0.5	..... .35	.30	.28	.26
228005CC	BK-T220	TO-220	3.9	1.2x1.0x0.5	..... .35	.30	.28	.26
40504CC	291-H-36AB	TO-220	2.0	0.9x1.0x0.4	..... .89	.80	.64	.48
158051CC	577102B00000	TO-220	2.0	.75x.52x.38	..... .39	.35	.29	.25
70914CC	THM6106	TO-220	1.9	1.2x1.0x0.5	..... .35	.30	.28	.26
70658CC	THM6073	TO-220	1.6	0.8x0.7x0.4	..... .22	.19	.16	.13
129242CC	THM6106	TO-220	1.6	1.2x1.0x0.5	..... .49	.45	.39	.35
107297CC	PSC-2 (cup-style)	TO-220	1.5	0.8x1.0x0.4	..... .49	.44	.35	.26

Diodes

Package (see pg 41)

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Description	1	10	100	1000
140185CC	BAS16	♦	SOT-23	70PRV, 1A (Switching)	* \$.09	\$.065	\$.027	
254852CC	BAT54	♦	SOT-23	30PRV, 0.6A (Schottky)	* .16	.125	.09	
254844CC	BAT54A	♦	SOT-23	30PRV, 0.6A (Schottky)	* .08	.05	.043	
254836CC	BAT54C	♦	SOT-23	30PRV, 0.6A (Schottky)	* .08	.05	.043	
254828CC	BAT54S	♦	SOT-23	30PRV, 0.6A (Schottky) .....	.21	.19	.16	.11
140177CC	BAW56	♦	SOT-23	70PRV, 0.25A (Switching)	* .058	.034	.021	
140206CC	BAV70	♦	SOT-23	70PRV, 0.25A (Switching)	* .06	.044	.026	
140193CC	BAV99	♦	SOT-23	70PRV, 1A (Switching)	* .06	.05	.038	
35941CC	1N270*	♦	DO-7	80PRV (Germanium) .....	.75	.69	.59	.49
313402CC	MMBD914	♦	SOT-23	100 V _{RRM} , 0.20A (Switching) ..	* .057	.055	.031	
179207CC	1N914	VSH	DO-35	100PRV (Switching)	* .05	.025	.014	
36311CC	1N914**	♦	DO-35	75PRV, .01A (Switching)	* .022	.018	.014	
312101CC	MBR1100	♦	DO-41	100PRV, 1.0A (Schottky) .....	.26	.144	.101	.097
35967CC	1N3600*	♦	DO-35	50PRV, .20A (Switching)	* .045	.029	.019	
179215CC	1N4148	VSH	DO-35	100PRV (Switching)	* .04	.03	.025	
36038CC	1N4148**	♦	DO-35	75PRV, .01A (Switching)	* .036	.027	.023	
151247CC	1N4148T	♦	DO-35	75PRV, .01A (Switching)	#	#	#	.009
94908CC	LL4148	♦	DL-35	75PRV @ 50µA, 10mA	†	†	.032	.014
313411CC	MMBD4148	♦	SOT-23	100 V _{RRM} , 0.20A (Gen. Purp.) ..	* .057	.055	.031	

♦ Jameco Value Offering VSH = Vishay † Prepackaged: order in increments of 100
*10 pcs. in Diode/rectifier cabinet kit, pg 43 # Taped-ammo style: order in increments of 1000
**100 pcs. in Diode/rectifier cabinet kit, pg 43

Zener Diodes

Package (see pg 41)

Prepackaged: order in increments of 10, 100, 500 or 1000

Part No.	Product No.	Mfr.	Pkg.	V _{Znom}	Pwr Dissipation	1	10	100	500	1000
36290CC	1N751A*	♦	DO-35	5.1V	0.5W	\$.06	\$.052	\$.045	\$.022	
288665CC	MMSZ24697	♦	SOD-123	10V	0.5W .....	.108	.059	.045	.045	
178765CC	1N4730A	♦	DO-41	3.9V	1W .....	.069	.055	.045	.029	
178773CC	1N4732A	VSH	DO-41	4.7V	1W .....	.07	.055	.045	.035	
178781CC	1N4733A	VSH	DO-41	5.1V	1W .....	.09	.06	.05	.04	
36097CC	1N4733A*	♦	DO-41	5.1V	1W .....	.08	.065	.042	.026	
178790CC	1N4734A	VSH	DO-41	5.6V	1W .....	.066	.052	.045	.039	
36118CC	1N4734A	♦	DO-41	5.6V	1W .....	.064	.05	.042	.035	
178802CC	1N4735A	VSH	DO-41	6.2V	1W .....	.055	.049	.04	.036	
36126CC	1N4735A*	♦	DO-41	6.2V	1W .....	.061	.049	.041	.035	
178811CC	1N4737A	♦	DO-41	7.5V	1W .....	.049	.045	.041	.036	
178829CC	1N4738A	♦	DO-41	8.2V	1W .....	.066	.042	.034	.027	
178837CC	1N4739A	♦	DO-41	9.1V	1W .....	.063	.042	.035	.032	
178845CC	1N4740A	♦	DO-41	10V	1W .....	.045	.039	.032	.028	
178853CC	1N4742A	VSH	DO-41	12V	1W .....	.063	.042	.039	.037	
36169CC	1N4742A*	♦	DO-41	12V	1W .....	.07	.055	.045	.032	
178861CC	1N4744A	VSH	DO-41	15V	1W .....	.063	.042	.039	.036	
36185CC	1N4744A	♦	DO-41	15V	1W .....	.07	.055	.045	.032	
178888CC	1N4747A	♦	DO-41	20V	1W .....	.05	.046	.041	.038	
178896CC	1N4748A	♦	DO-41	22V	1W .....	.032	.029	.027	.024	
178909CC	1N4749A	♦	DO-41	24V	1W .....	.063	.042	.039	.035	
183450CC	1N4750A	♦	DO-41	27V	1W .....	.09	.081	.069	.051	
179004CC	1N5225B	♦	DO-35	3.0V	0.5W .....	.033	.025	.017	.016	
288702CC	MMSZ5226B	♦	SOD-123	3.3V	0.5W .....	.107	.067	.064	.045	
179021CC	1N5229B	♦	DO-35	4.3V	0.5W .....	.031	.028	.025	.023	
179039CC	1N5230B	♦	DO-35	4.7V	0.5W .....	.04	.035	.03	.027	
179047CC	1N5231B	♦	DO-35	5.1V	0.5W .....	.04	.035	.03	.027	
179055CC	1N5232B	♦	DO-35	5.6V	0.5W .....	.026	.023	.021	.019	
179063CC	1N5234B	♦	DO-35	6.2V	0.5W .....	.04	.035	.029	.025	
313390CC	MMBZ5241B	♦	TO-236	11V	0.35W .....	.115	.069	.059	.041	
179098CC	1N5242B	♦	DO-35	12V	0.5W .....	.05	.042	.034	.025	
179135CC	1N5250B	♦	DO-35	20V	0.5W .....	.027	.024	.022	.02	
288788CC	MMSZ5257	♦	SOD-123	33V	0.5W .....	.116	.05	.044	.044	

♦ Jameco Value Offering VSH = Vishay *10 pcs. in Diode/rectifier cabinet kit, pg 43
Don't worry about backorders. Over 99% of our products are in stock!
Just place your order by 6PM EST for same business day shipment.

Transient Voltage Suppressors

Package (see pg 44)

* Prepackaged: order in increments of 10, 100 or 1000									
Part No.	Product No.	Watts	Pkg.	Min. Brkdw Volt. (V _{BR})	Stand-Off Voltage	1	10	100	1000
254879CC	SA6.0A	500	DO-15	6.67	6.0	\$.23	\$.22	\$.20	\$.14
256701CC	SA12A	500	DO-15	13.3	12.0	.20	.19	.17	.13
254991CC	SA12CA	500	DO-15	13.3	12.0	.30	.29	.27	.24
254983CC	SA13A	500	DO-15	14.4	13.0	*	.16	.15	.14
254975CC	SA15A	500	DO-15	16.7	15.0	.24	.23	.22	.19
254967CC	SA20A	500	DO-15	22.2	20.0	.20	.19	.18	.13
254916CC	SA24A	500	DO-15	26.7	24.0	.24	.23	.22	.19
254908CC	SA28A	500	DO-15	31.1	28.0	.24	.23	.22	.19
254895CC	SA30A	500	DO-15	33.3	30.0	.31	.30	.25	.18
254887CC	SA30CA	500	DO-15	33.3	30.0	.46	.37	.28	.17
256663CC	P6KE6.8A	600	DO-15	6.45	5.8	*	.19	.18	.18
256647CC	P6KE7.5A	600	DO-15	7.13	6.4	*	.19	.17	.14
256639CC	P6KE9.1A	600	DO-15	8.65	7.8	*	.19	.165	.14
288999CC	P6KE10A	600	DO-15	9.5	8.55	.43	.332	.185	.122
288981CC	P6KE10CA	600	DO-15	9.5	8.55	*	.183	.135	.12
289035CC	P6KE12A	600	DO-15	11.4	10.2	.23	.199	.157	.141
289043CC	P6KE12CA	600	DO-15	11.4	10.2	*	.183	.134	.119
255943CC	P6KE16A	600	DO-15	15.2	13.6	.21	.20	.195	.13
255935CC	P6KE16CA	600	DO-15	15.2	13.6	.25	.24	.225	.19
255919CC	P6KE18A	600	DO-15	17.1	15.3	.23	.22	.20	.135
255901CC	P6KE18CA	600	DO-15	17.1	15.3	.23	.22	.20	.136
255863CC	P6KE20A	600	DO-15	19.0	17.1	*	.26	.25	.24
272102CC	P6KE22A	600	DO-15	20.9	18.8	*	.13	.115	.105
255855CC	P6KE24A	600	DO-15	22.8	20.5	.23	.22	.20	.135
255847CC	P6KE24CA	600	DO-15	22.8	20.5	*	.17	.15	.12
255821CC	P6KE27A	600	DO-15	25.7	23.1	.26	.25	.24	.17
255812CC	P6KE27CA	600	DO-15	25.7	23.1	.24	.23	.22	.16
255804CC	P6KE30A	600	DO-15	28.5	25.6	.26	.25	.23	.19
255791CC	P6KE30CA	600	DO-15	28.5	25.6	.26	.25	.23	.19
255783CC	P6KE33A	600	DO-15	31.4	28.2	.25	.24	.23	.18
255775CC	P6KE33CA	600	DO-15	31.4	28.2	.25	.24	.23	.16
255767CC	P6KE36A	600	DO-15	34.2	30.8	.23	.22	.20	.136
255759CC	P6KE39A	600	DO-15	37.1	33.3	.26	.24	.23	.19
255741CC	P6KE39CA	600	DO-15	37.1	33.3	*	.17	.16	.15
256698CC	P6KE47A	600	DO-15	44.7	40.2	.20	.19	.18	.13
256680CC	P6KE47CA	600	DO-15	44.7	40.2	*	.17	.155	.13
256671CC	P6KE51A	600	DO-15	48.5	43.6	.24	.23	.185	.185
256655CC	P6KE68A	600	DO-15	64.6	58.1	.25	.24	.23	.23
256621CC	P6KE91A	600	DO-15	86.5	77.8	.26	.25	.23	.18
288956CC	P6KE100A	600	DO-15	95	85.5	*	.175	.135	.12
316849CC	P6KE100CA	600	DO-15	95	85.5	.42	.34	.185	.18
255951CC	P6KE150CA	600	DO-15	143.0	128.0	.36	.33	.28	.17
255927CC	P6KE180A	600	DO-15	171.0	154.0	.26	.23	.15	.135
255871CC	P6KE200A	600	DO-15	190.0	171.0	.38	.35	.33	.27
255839CC	P6KE250CA	600	DO-15	237.0	214.0	.26	.23	.15	.14
313146CC	SMCJ5.0A	1500	DO-214AB	6.4	5	1.04	.82	.468	.332
313120CC	SMCJ5.0CA	1500	DO-214AB	6.4	5	.61	.506	.495	.483
313103CC	SMCJ6.0A	1500	DO-214AB	6.67	6	.73	.56	.55	.54
313218CC	SMCJ10A	1500	DO-214AB	11.1	10	.76	.61	.58	.552
313234CC	SMCJ10CA	1500	DO-214AB	11.1	10	.61	.51	.465	.442
313200CC	SMCJ20A	1500	DO-214AB	22.2	20	.99	.82	.75	.72
313197CC	SMCJ20CA	1500	DO-214AB	22.2	20	.62	.515	.48	.46
313171CC	SMCJ24A	1500	DO-214AB	26.7	24	.73	.60	.57	.54
313189CC	SMCJ24CA	1500	DO-214AB	26.7	24	.76	.58	.302	.255
313162CC	SMCJ36A	1500	DO-214AB	40	36	.45	.365	.302	.255
313154CC	SMCJ36CA	1500	DO-214AB	40	36	1.08	.87	.83	.79
313082CC	SMCJ58CA	1500	DO-214AB	64.4	58	1.09	.87	.83	.79

Diac/Triacs/Quadac

Package (see pg 41)

* Prepackaged: order in increments of 10 or 100									
Part No.	Product No.	Mfr.	Pkg.	Type	Rating	1	10	100	1000
160098CC	HT-32	TEC	DO-35	Diac	27.37 V _{BO} , 2A	*	\$.15	\$.125	
31819CC	SC146B	♦	TO-220	Triac	200 V _{DRM} , 10A (2N6342)	1.29	1.15	.99	
31827CC	SC146M	♦	TO-220	Triac	600 V _{DRM} , 10A (2N6344)	1.99	1.69	1.49	
160178CC	L401E3	TEC	TO-92	Triac	400 V _{DRM} , 1A	.65	.56	.52	
160194CC	Q401E3	TEC	TO-92	Triac	400 V _{DRM} , 1A	.59	.52	.47	
220468CC	L4004F31	TEC	TO-220AB	Triac	400 V _{DRM} , 4A	.86	.76	.70	
160186CC	L4004F51	TEC	TO-220AB	Triac	400 V _{DRM} , 4A	.85	.76	.69	
220450CC	L4004L3	TEC	TO-220AB	Triac	400 V _{DRM} , 4A	1.25	1.09	.99	
160240CC	Q4004LT	TEC	TO-220AB	Quadac	400 V _{DRM} , 4A	1.09	.99	.89	
160207CC	Q4008L4	TEC	TO-220AB	Triac	400 V _{DRM} , 8A	1.19	1.06	.97	
220492CC	Q4008R4	TEC	TO-220AB	Triac	400 V _{DRM} , 8A	1.05	.97	.89	
139336CC	Q4015L5	♦	TO-220AB	Triac	400 V _{DRM} , 15A	1.55	1.36	1.25	
160143CC	Q4025L6	TEC	TO-220AB	Triac	400 V _{DRM} , 25A	2.59	2.29	1.91	
160215CC	Q6008L5	TEC	TO-220AB	Triac	600 V _{DRM} , 8A	1.35	1.18	1.07	
160231CC	Q6015L5	TEC	TO-220AB	Triac	600 V _{DRM} , 15A	1.79	1.63	1.49	
220513CC	Q6025P5	TEC	TO-3	Triac	600 V _{DRM} , 25A	7.59	6.75	5.95	
220505CC	Q6025R6	TEC	TO-220AB	Triac	600 V _{DRM} , 25A	2.25	2.05	1.85	
220521CC	Q6035P5	TEC	TO-3	Triac	600 V _{DRM} , 35A	9.69	8.69	7.89	
140425CC	2N6071A	♦	TO-225AA	Triac	200 V _{DRM} , 4A	.29	.27	.24	

♦ Jameco value Offering TEC = Teccor

Silicon Controlled Rectifiers (SCR)

Package (pg 41)

* Prepackaged: order in increments of 10, 100 or 1000									
Part No.	Product No.	Mfr.	Pkg.	Rating	1	10	100	1000	
14859CC	C38M	♦	TO-65	600 PRV, 35A (2N3899)	\$6.89	\$6.19	\$5.59	\$5.05	
14736CC	C106B1*	♦	TO-202	200 PRV, 4A (2N6239)†	.67	.54	.46	.40	
14752CC	C122B	♦	TO-220	200 PRV, 8A†	.73	.66	.63	.52	
14761CC	C122M	♦	TO-220	600 PRV, 8A†	1.35	1.25	1.05	.69	
220484CC	EC103B	TEC	TO-92	200 V _{DRM} , 0.8A	.35	.32	.31	.31	
160101CC	EC103D	TEC	TO-92	400 V _{DRM} , 0.8A	.41	.35	.26	.26	
220530CC	T106B1	TEC	TO-202AB	200 V _{DRM} , 4A	.58	.49	.45	.37	
160119CC	T106D1	TEC	TO-202AB	400 V _{DRM} , 4A	.59	.51	.46	.36	
160127CC	S401E	TEC	TO-92	400 V _{DRM} , 1A	.38	.34	.31	.28	
119802CC	2N5060	♦	TO-92	25 PRV, 0.8A	*	.19	.15	.12	
211422CC	2N5061	♦	TO-92	60 PRV, 0.8A	*	.14	.13	.11	
120070CC	2N5062	♦	TO-92	100 PRV, 0.8A	*	.19	.155	.145	
211431CC	2N5064	♦	TO-92	200 PRV, 0.8A	*	.18	.153	.115	
140417CC	2N6507	♦	TO-220AB	400 PRV, 25A	1.05	.99	.85	.75	
220548CC	S4025L	TEC	TO-220AB	400 V _{DRM} , 25A	1.65	1.47	1.34	1.04	
160135CC	S6025L	TEC	TO-220AB	600 V _{DRM} , 25A	1.75	1.59	1.43	1.22	

† Isolated ♦ Jameco Value Offering TEC = Teccor *10 pcs. in Diode/Rectifier cabinet kit, below

Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes,
Switching and Silicon Rectifiers

SAVE \$4

Includes:

20 drawer component cabinet (319599CC),
20 clear plastic drawers (319601CC),
20 clear dividers (319610CC), pg 131 and
30 adhesive labels for drawers to identify parts in kit

10 each: 1N270, 1N751A, 1N3600, 1N4001, 1N4007, 1N4733A,
1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M

100 each: 1N914, 1N4004, 1N4148

Part No.	Description	Wt. (lbs.)	1	10
82587CC	420 pcs. (15 types) diode kit	5.0	\$39.95	\$35.95
130366CC	Refill for 82587CC (420 pcs.)	0.3	25.95	21.95



Corporate Customers

Opening an account is easy!! Call 1-800-831-4242 for details today.



Rectifiers

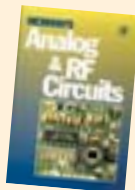
* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Rating	1	10	100	1000
177754CC	T6A05L	♦	T6L	50 PIV, 6A	.31	.28	.25	.23
177762CC	T6A10L	♦	T6L	100 PIV, 6A	.65	.55	.45	.39
177818CC	T6A100L	♦	T6L	1000 PIV, 6A	.65	.59	.49	.39
301444CC	MBR1060	♦	TO-220	60 V _{RRM} , 10A	.63	.506	.42	.346
35924CC	1N1188	♦	DO-5	400 PRV, 35A	4.25	3.89	3.27	2.99
35975CC	1N4001*	♦	DO-41	50 PRV, 1A	...	.035	.025	.015
76961CC	1N4002	♦	DO-41	100 PRV, 1A	...	.039	.025	.018
76970CC	1N4003	♦	DO-41	200 PRV, 1A	...	.035	.025	.015
35991CC	1N4004**	♦	DO-41	400 PRV, 1A	...	.04	.025	.02
76988CC	1N4005	♦	DO-41	600 PRV, 1A	...	.035	.025	.015
76996CC	1N4006	♦	DO-41	800 PRV, 1A	...	.035	.025	.015
36011CC	1N4007*	♦	DO-41	1000 PRV, 1A	...	.038	.029	.02
227846CC	1N5059	♦	SOD57	200 V _R , 2A	...	.12	.10	.085
227854CC	1N5060	♦	SOD57	400 V _R , 2A	...	.11	.09	.08
227862CC	1N5061	♦	SOD57	600 V _R , 2A	...	.135	.125	.095
227871CC	1N5062	♦	SOD57	800 V _R , 2A	...	.16	.156	.115
214543CC	1N5399	♦	DO-15	1000 PRV, 1.5A	...	.02	.018	.016
77075CC	1N5400	♦	DO-27A	50 PRV, 3A	...	.10	.095	.07
36249CC	1N5401	♦	DO-27A	100 PIV, 3A	...	.075	.065	.051
77083CC	1N5402	♦	DO-27A	200 PRV, 3A	...	.085	.075	.056
36265CC	1N5404*	♦	DO-27A	400 PRV, 3A	...	.10	.09	.069
36273CC	1N5408*	♦	DO-27A	1000 PRV, 3A	...	.15	.11	.08
177949CC	1N5817	♦	DO-204AL	20 PIV, 1A	...	.11	.09	.069
177957CC	1N5818	♦	DO-204AL	30 PIV, 1A	...	.09	.08	.055
177965CC	1N5819	♦	DO-204AL	40 PIV, 1A	...	.10	.085	.075
177973CC	1N5820	♦	DO-201AD	20 PIV, 3A	...	.13	.12	.12
177981CC	1N5821	♦	DO-201AD	30 PIV, 3A	...	.19	.16	.15
177990CC	1N5822	♦	DO-201AD	40 PIV, 3A	...	.23	.19	.15

♦ Jameco Value Offering * 10 pcs. / ** 100 pcs. in Diode/Rectifier cabinet kit, pg 43

Analog and RF Circuits

Newnes Publishing The author, one of the leading analog and RF engineers, uses illustrations and examples rather than mathematical theory to present a wealth of ideas and tips based on his experience. Essential reading for anyone designing analog circuits. Topics include RF amplifiers, oscillator design and behavior, waveform analysis, optoelectronics, filters, and op-amps. (299 pages, 1998)



Part No.	Description	Size	Wt. (lbs.)	Price
200150CC	Analog and RF Circuits	7.4" x 9.2"	1.1	\$49.95

We All Need More Tolerance – Think NTE

We all prefer to help the company bring in revenue, and frankly, design and development is more fun!

So one way to reduce the repair time and also improve reliability is to use replacement products that are more forgiving. With less sensitivity to noise, inputs won't trigger incorrectly. With greater temperature ranges, potential dissipation risks are reduced.

The list goes on...

So how do you find these more forgiving products? Just take a look at the NTE products on the next few pages. They are designed for repair projects where more forgiving specs are needed. And you'll find them at Jameco's awesome prices too!



Practical Practices
Money Saving Tips for the Engineer

Bridge Rectifiers

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Mfr.	Pkg.	Rating	1	10	100	1000
178001CC	DF005M	♦	DF	50 PIV, 1A	.35	.30	.22	.15
255960CC	DF005S	♦	SDIP-4	50 PIV, 1A	.30	.26	.22	.18
103000CC	DF01M	♦	DF	100 PIV, 1A	.30	.26	.21	.17
103042CC	DF02M	♦	DF	200 PIV, 1A	.35	.30	.22	.17
102971CC	DF04M	♦	DF	400 PIV, 1A	.45	.41	.35	.31
103034CC	DF06M	♦	DF	600 PIV, 1A	.32	.30	.25	.21
103026CC	DF10M	♦	DF	1000 PIV, 1A	.30	.27	.23	.15
256559CC	DF10S	♦	SDIP-4	1000 PIV, 1A	.31	.26	.23	.19
256604CC	DF01S	♦	SDIP-4	100 PIV, 1.5A	.29	.23	.21	.18
256591CC	DF02S	♦	SDIP-4	200 PIV, 1.5A	.30	.25	.22	.16
256583CC	DF04S	♦	SDIP-4	400 PIV, 1.5A	.32	.28	.24	.20
256575CC	DF08M	♦	DIP-4	800 PIV, 1.5A	.35	.30	.25	.18
256567CC	DF08S	♦	SDIP-4	800 PIV, 1.5A	.29	.27	.22	.20
145429CC	KBP02M	♦	KBP	200 PIV, 1.5A	.40	.35	.29	.19
119562CC	KBP04M*	♦	KBP	400 PIV, 1.5A	.45	.32	.23	.19
279494CC	W005G	♦	WOG	50 PIV, 1.5A	.35	.29	.26	.165
103018CC	W02G	♦	WOG	200 PIV, 1.5A	.38	.32	.28	.19
102980CC	W04G	♦	WOG	400 PIV, 1.5A	.36	.27	.18	.17
102998CC	W06G	♦	WOG	600 PIV, 1.5A	.40	.35	.29	.20
179469CC	W08G	♦	WOG	800 PIV, 1.5A	.35	.32	.26	.18
279515CC	W10G	♦	WOG	1000 PIV, 1.5A	.34	.30	.21	.18
178124CC	W005M	♦	WOM	50 PIV, 1.5A	.38	.33	.28	.19
178132CC	W01M	♦	WOM	100 PIV, 1.5A	.36	.27	.20	.17
178141CC	W02M	♦	WOM	200 PIV, 1.5A	.38	.33	.28	.19
178175CC	W08M	♦	WOM	800 PIV, 1.5A	...	.15	.13	.13
178183CC	BR805D	♦	BR8D	50 PIV, 2A	.55	.49	.39	.35
178204CC	BR82D	♦	BR8D	200 PIV, 2A	.85	.77	.69	.69
178247CC	BR810D	♦	BR8D	1000 PIV, 2A	.59	.49	.39	.35
253260CC	2KBP06M	♦	KBP	600 PIV, 2A	.41	.35	.29	.24
253286CC	2KBP10M	♦	KBP	1000 PIV, 2A	.40	.35	.29	.24
179477CC	GBPC25-01	♦	GBPC	100 PIV, 25A	2.49	2.05	1.65	1.43
179485CC	GBPC25-02	♦	GBPC	200 PIV, 25A	3.25	2.69	2.25	1.65
178280CC	MB254	♦	MB35	400 PIV, 25A	2.55	2.41	2.23	1.55
178335CC	TB252	♦	TB35	200 PIV, 25A	2.09	1.85	1.69	1.50
25574CC	MDA990-3	♦	179-01	200 PIV, 30A	3.99	3.45	2.99	1.85
25591CC	MDA990-6	♦	179-01	600 PIV, 30A	4.59	4.29	3.99	3.59
299882CC	GBPC1204	♦	GBPC	400 V _{RRM} , 12A	2.89	2.52	1.35	1.15
299874CC	GBPC1206	♦	GBPC	600 V _{RRM} , 12A	3.15	2.67	1.15	1.09
299866CC	GBPC1206W	♦	GBPCWire	600 V _{RRM} , 12A	1.89	1.55	1.10	1.04
178431CC	MB358	♦	MB35	800 PIV, 35A	3.59	3.29	2.75	1.85
178440CC	TB3505	♦	TB35	50 PIV, 35A	1.65	1.52	1.38	1.26
178503CC	TB3510	♦	TB35	1000 PIV, 35A	2.99	2.49	2.09	1.96

♦ Jameco Value Offering * 10 pcs. in Diode/rectifier cabinet kit, pg 43
† DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

Troubleshooting & Repairing Consumer Electronics without a Schematic

TAB Publishing Learn how to locate, test, and repair defective components in audio amplifiers, car radios, cassette decks, TV chassis, compact disc players, power supplies, AM/FM receivers and VCRs. (475 pages, 1997)

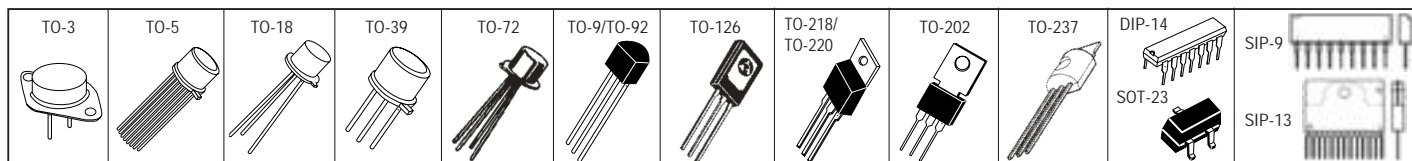
• Size: 7.4" x 9.3" • Weight: 1.1 lbs.



Part No.	Description	Price
136080CC	Troubleshooting & Repairing	\$24.95

For NTE Replacement Transistors, Diodes and Rectifiers
see pages 47 - 49.

Please call our sales rep if you cannot find a specific NTE replacement product. We also offer special pricing on large quantity orders.

**Analog Circuits**

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
260161CC	NTE778A	DIP-8	Dual operational amplifier	\$2.39	\$2.29	\$2.21
260179CC	NTE823	DIP-8	Low voltage audio amplifier	1.55	1.49	1.45
275442CC	NTE824	DIP-8	Stereo preamp.	2.75	2.62	2.49
275451CC	NTE834	DIP-14	Quad comparator	1.89	1.81	1.65
275469CC	NTE857M	DIP-8	JFET input op amp.	2.95	2.68	2.22
260187CC	NTE858M	DIP-8	Dual low noise JFET input op amp.	2.65	2.41	2.15
260195CC	NTE859	DIP-14	Quad low noise JFET input op amp.	3.75	3.55	3.39
275485CC	NTE891M	DIP-8	Dual audio op amplifier	1.49	1.47	1.44
275522CC	NTE916	DIP-16	NPN transistor array	4.25	3.92	3.59
275557CC	NTE928M	DIP-8	Dual low power op amplifier	2.29	2.05	1.82
275573CC	NTE937M	DIP-8	JFET input op amplifier	2.85	2.55	2.27
275581CC	NTE938M	DIP-8	Precision op amplifier	9.49	9.02	8.56
260216CC	NTE941	TO-5/8	Operational amplifier	5.85	5.69	5.55
260241CC	NTE941M	DIP-8	Operational amplifier	.92	.88	.85
275602CC	NTE941SM	DIP-8	General purpose op amplifier	1.15	1.09	1.04
275611CC	NTE943M	DIP-8	Dual comparator, low power & offset	3.09	2.95	2.67
260232CC	NTE947D	DIP-14	Dual operational amplifier	4.95	4.58	4.07
275629CC	NTE948	DIP-14	Quad op amplifier	3.09	2.78	2.48
260241CC	NTE955M	DIP-8	Timing circuit	1.29	1.25	1.20
275645CC	NTE955MC	DIP-8	CMOS, mono timer	1.35	1.32	1.29
275696CC	NTE975	DIP-8	Op amplifier	2.45	2.33	2.20
275717CC	NTE978	DIP-14	Dual timer	2.49	2.29	1.88
260347CC	NTE987	DIP-14	Quad low power operational amplifier	1.95	1.85	1.80
275733CC	NTE997	DIP-14	Quad op amplifier	3.35	2.85	2.54
260355CC	NTE999	TO-92	Adjustable precision shunt regulator	1.02	.99	.95
272292CC	NTE1232	TO-220/5	Amp, audio power, 8w, 5-p	6.05	5.79	5.52
272305CC	NTE1289	DIP-12	TV vertical deflection system	11.05	10.49	9.95
272399CC	NTE1508	DIP-18	Dot/bar display driver, 10-step	7.25	6.85	6.52
272428CC	NTE1561	SIP-9	5 LED VU level meter	2.85	2.69	2.57
272495CC	NTE1684	SIP-7	TV vertical deflection circuit	4.79	4.69	4.58
260128CC	NTE1714M	DIP-8	Remote control amplifier/driver	4.99	4.19	4.11
272524CC	NTE1729	DIP-16	PWM control circuit	4.19	4.10	4.00
272532CC	NTE1773	SIP-7	Vertical deflection output circuit	2.95	2.89	2.82
272559CC	NTE1782	SIP-7	TV vertical deflection output circuit	4.95	4.83	4.71
272567CC	NTE1784	DIP-16	Horizontal processor	4.39	4.28	4.17
272575CC	NTE1788	SIP-7	TV vertical output	5.79	5.67	5.55
272604CC	NTE1850	SIP-9	Audio amp, dual, 12W/ch	7.69	7.53	7.36
272701CC	NTE2013	DIP-16	7-channel darlington array driver	3.39	3.30	3.21
260136CC	NTE2014	DIP-16	7-channel darlington array driver	2.85	2.69	2.59
260144CC	NTE2018	DIP-18	8-channel darlington array driver	3.29	3.15	3.09
272735CC	NTE2117	DIP-16	MOS 16k DRAM	14.15	13.57	11.88
259291CC	NTE4001B	DIP-14	Quad 2-input NOR gate	.68	.65	.62
259303CC	NTE4006B	DIP-14	18-stage static shift register	2.85	2.77	2.71
273800CC	NTE4011B	DIP-14	CMOS quad 2-input nand gate	.91	.85	.77
259311CC	NTE4013B	DIP-14	Dual-D flip-flop w/ set/reset	1.10	1.06	1.02
273818CC	NTE4017B	DIP-16	CMOS decade counter	1.99	1.89	1.71
273826CC	NTE4026B	DIP-16	CMOS decade counter/divider	2.65	2.58	2.52
259320CC	NTE4049	DIP-16	Hex buffer/converter (inverting)	1.22	1.18	1.14
273834CC	NTE4050B	DIP-16	CMOS hex buffer/converter	1.59	1.55	1.51
259338CC	NTE4066B	DIP-14	Quad bilateral switch	1.42	1.37	1.31
273842CC	NTE4069	DIP-14	CMOS hex inverter, HV	.76	.75	.73
273851CC	NTE4081B	DIP-14	CMOS quad 2-input and gate	.68	.67	.65
259346CC	NTE4093B	DIP-14	Quad 2-input NAND Schmitt trigger	1.05	1.02	.99
273914CC	NTE4538B	DIP-16	CMOS dual multivibrator	1.69	1.65	1.61
273922CC	NTE4584B	DIP-14	CMOS hex Schmitt trigger	1.29	1.25	1.21
275039CC	NTE6403	—	Silicon bilateral switch	7.59	7.42	7.24
275071CC	NTE6800	DIP-40	MPU, NMOS, 8-bit, 1MHz	13.69	13.14	11.51
275080CC	NTE6821	DIP-40	PIA, NMOS, 1MHz	7.39	7.06	6.42
260152CC	NTE7039	SIP-13	Vert. deflection output circuit w/ drive circuit	3.19	3.09	2.99
275098CC	NTE7096	DIP-8	PWM control circuit	2.99	2.87	2.75

Analog Circuits (Continued)

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
275101CC	NTE7104	SIP-13	Vertical deflection output circuit	\$2.89	\$2.82	\$2.74
275338CC	NTE75188	DIP-14	DTL quad line driver, RS-232	1.55	1.52	1.48
259397CC	NTE75189	DIP-14	Quad line receiver	1.22	1.18	1.14

Logic Circuits

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
275119CC	NTE7400	DIP-14	TTL NAND gate	\$1.25	\$1.17	\$1.08
275223CC	NTE74LS00	DIP-14	TTL NAND gate	.73	.72	.70
275127CC	NTE7402	DIP-14	TTL NOR gate	.95	.92	.89
275194CC	NTE74HC02	DIP-14	Hi-speed CMOS quad 2-in gate	.55	.54	.52
275231CC	NTE74LS02	DIP-14	TTL NOR gate	.73	.72	.70
275240CC	NTE74LS03	DIP-14	TTL NAND gate	.73	.72	.70
275135CC	NTE7404	DIP-14	TTL hex inverter	.84	.82	.80
275258CC	NTE74LS04	DIP-14	TTL hex inverter	.90	.88	.86
275143CC	NTE7406	DIP-14	TTL hex inverter buffer	1.15	1.10	.95
259354CC	NTE7407	DIP-14	Hex buffer/driver	1.29	1.25	1.20
259362CC	NTE7408	DIP-14	Quad 2-input AND gate	1.06	1.03	.99
275266CC	NTE74LS08	DIP-14	TTL AND gate	.80	.78	.76
275274CC	NTE74LS11	DIP-14	TTL AND gate	.72	.70	.68
275207CC	NTE74HC14	DIP-14	Hi-speed CMOS hex schmitt	.65	.64	.62
275151CC	NTE7432	DIP-32	TTL OR gate	1.29	1.26	1.22
275303CC	NTE74LS32	DIP-32	TTL quad 2 input or gate	.86	.83	.81
275160CC	NTE7447	DIP-16	TTL decoder/driver	2.45	2.39	2.32
275178CC	NTE7474	DIP-14	TTL dual "D" flip-flop	.69	.65	.59
259389CC	NTE7475	DIP-16	4-bit bi-stable latch	3.89	3.71	3.54
275320CC	NTE74LS76A	DIP-16	TTL dual flip/flop	.92	.90	.88
275186CC	NTE7490	DIP-14	TTL decade counter	1.45	1.41	1.37
275426CC	NTE8216	DIP-16	Schottky bus driver	4.89	4.52	4.14
273797CC	NTE40106B	DIP-14	CMOS hex Schmitt trigger	1.25	1.22	1.18
259371CC	NTE74121	DIP-14	Monostable multivibrator	2.29	2.21	1.97
275282CC	NTE74LS192	DIP-16	TTL up/down counter	2.49	2.43	2.37
275215CC	NTE74HC244	DIP-20	Hi-speed CMOS octal buffer	1.29	1.27	1.24
275291CC	NTE74LS244	DIP-20	TTL quad driver	3.65	3.55	3.46
275311CC	NTE74LS490	DIP-16	TTL dual decade counter	3.05	2.97	2.90

Voltage Regulators

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
261358CC	NTE309K	TO-3	+5V, 1A	\$8.05	\$7.85	\$7.65
275531CC	NTE923	10-Lead MC	+2-37V, 150mA	4.99	4.74	4.50
275549CC	NTE923D	DIP-14	+2-37V, 150mA	1.45	1.38	1.31
260208CC	NTE931	TO-3	+5V, 3A	11.59	11.02	9.86
275565CC	NTE935	TO-3	+1.2-32V, 5A	13.89	13.19	12.53
275637CC	NTE950	TO-92	+12V, 100mA	2.15	2.03	1.92
275653CC	NTE956	TO-220	+1.2-37V, 1.5A	2.25	2.01	1.79
275661CC	NTE957	TO-220	-1.2-37V, 1.5A	3.29	2.76	2.64
260259CC	NTE960	TO-220	+5V, 1A	1.65	1.59	1.53
260267CC	NTE961	TO-220	-5V, 1A	1.65	1.59	1.53
260275CC	NTE962	TO-220	+6V, 1A	1.32	1.28	1.23
260283CC	NTE964	TO-220	+8V, 1A	1.29	1.25	1.19
260291CC	NTE966	TO-220	+12V, 1A	1.65	1.59	1.53
260304CC	NTE967	TO-220	-12V, 1A	1.65	1.59	1.53
260321CC	NTE968	TO-220	+15V, 1A	1.65	1.59	1.53
275670CC	NTE969	TO-220	-15V, 1A	1.65	1.59	1.39
275688CC	NTE970	TO-3	+1.2-33V, 3A	10.55	10.02	9.52
260321CC	NTE971	TO-220	-24V, 1A	4.65	4.39	4.15
260339CC	NTE972	TO-220	+24V, 1A	1.65	1.59	1.53
275709CC	NTE977	TO-92	+5V, 100mA	1.35	1.30	1.15
272541CC	NTE1777	SIP-5	+130V, 1A	12.35	12.01	11.66
272591CC	NTE1840	SIP-5	+41.8V, 2A hybrid switching	13.75	12.65	11.54
272612CC	NTE1910	TO-220	+9V, 1A switching	1.59	1.55	1.51

Please call our sales rep if you cannot find a specific NTE replacement product. We also offer special pricing on large quantity orders.

Voltage Regulators (Continued)

Package (see pg 47)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
261331CC	NTE1914	TO-3	+12V, 1A	\$3.75	\$3.72	\$3.69
261340CC	NTE1915	TO-3	-12V, 1A	3.89	3.85	3.79
272621CC	NTE1916	TO-3	+15V, 1.5A	4.69	4.49	4.09
272647CC	NTE1936	TO-3P	+12V, 2A	6.05	5.90	5.75

Transistors

Package (see pgs 47)

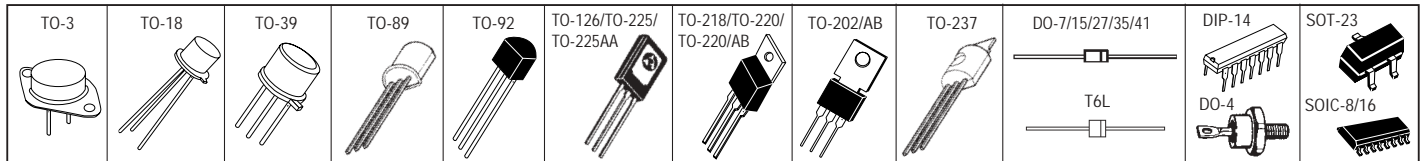
Part No.	Cross Ref.	Pkg.	Description	1	10	25
272250CC	NTE11	TO-92	NPN silicon, high current amplifier	\$1.45	\$1.06	\$.99
273017CC	NTE24	TO-237	NPN silicon, general-purpose amp., switch ..	1.42	1.17	1.14
273551CC	NTE31	TO-92	NPN silicon, AF driver output	2.35	2.27	2.00
273594CC	NTE32	TO-92	PNP silicon, TV sound/vert., AF driver output	2.45	2.37	2.07
273640CC	NTE36	TO-3P	NPN AF power amp., high-curr. switch	6.09	5.84	5.59
273658CC	NTE37	TO-3P	PNP AF power amp., high-curr. switch	4.65	4.55	4.45
273931CC	NTE46	TO-92	NPN silicon, gen-pur. amp., preamp., driver	1.49	1.45	1.28
261083CC	NTE47	TO-92	NPN high-gain, low-noise .....	.61	.59	.57
261104CC	NTE48	TO-92	NPN darlington, high-current .....	.95	.92	.89
274301CC	NTE51	TO-220	NPN high-voltage high-speed switch	3.15	2.99	2.71
274440CC	NTE53	TO-3	NPN hi-speed switch	11.39	11.12	10.84
274520CC	NTE54	TO-220	NPN audio power amplifier	2.95	2.82	2.56
261112CC	NTE55	TO-220	PNP complementary trans., hi-freq. driver ...	3.55	3.39	3.25
274976CC	NTE60	TO-3	NPN silicon complementary transistor	9.49	8.55	7.09
275063CC	NTE68	TO-3	PNP silicon, gen-purpose hi-pwr audio	9.85	9.57	9.29
261139CC	NTE85	TO-92	NPN general-purpose amplifier .....	.84	.79	.76
275477CC	NTE89	TO-3	NPN color TV horizontal output	10.09	9.56	8.69
275493CC	NTE90	TO-92	NPN general-purpose high-gain amp.	1.09	1.04	.95
275506CC	NTE91	TO-92	PNP silicon, gen-purpose hi-gain amp.	1.09	1.04	.95
275590CC	NTE94	TO-3	NPN high-voltage switch	4.89	4.78	4.67
275725CC	NTE98	TO-3	NPN silicon, HV darl. pwr amp., switch ...	18.39	17.47	16.60
260507CC	NTE100	TO-18	PNP germanium comp. trans. oscillator ...	3.15	3.09	3.04
260515CC	NTE102	TO-18	PNP germanium comp. trans. pwr output driver	3.69	2.49	2.35
272225CC	NTE102A	TO-1	NPN germanium, medium power amp.	2.09	2.06	2.03
272233CC	NTE103A	TO-1	NPN darlington power amplifier	1.55	1.45	1.39
272241CC	NTE107	TO-92	NPN silicon, UHF oscillator for tuner	1.25	1.15	1.06
260523CC	NTE108	TO-92	NPN high-frequency amplifier	1.34	1.29	1.24
272284CC	NTE121	TO-3	PNP hi pwr, low coll. sat. volt pwr output ...	10.89	10.15	9.65
260531CC	NTE123	TO-18	NPN general-purpose audio amp., switch ...	.75	.73	.71
260540CC	NTE123A	TO-18	NPN comp. transistor, general-purpose ...	1.07	1.04	.99
260558CC	NTE123AP	TO-92	NPN audio amplifier switch .....	.86	.79	.74
260566CC	NTE128	TO-39	NPN comp. trans., audio output, video driver	1.19	1.15	1.07
260574CC	NTE128P	TO-237	NPN comp. transistor, general-purpose ...	1.29	1.25	1.20
260582CC	NTE129	TO-237	PNP comp. transistor, general-purpose ...	2.25	2.19	2.09
272313CC	NTE129P	TO-237	PNP silicon, general-purpose amp.	1.19	1.16	1.02
260591CC	NTE130	TO-3	NPN audio pwr amp., medium speed switch	2.75	2.52	2.29
272401CC	NTE152	TO-220	NPN audio power amplifier	1.79	1.75	1.49
272410CC	NTE153	TO-220	PNP silicon, audio power amp., switch ...	2.05	1.96	1.69
260603CC	NTE154	TO-39	NPN high-voltage video output	2.85	2.65	2.56
272444CC	NTE157	TO-126	NPN silicon, HV audio power	1.75	1.65	1.44
272452CC	NTE158	TO-1	PNP germanium audio power amp.	2.15	2.08	2.01
260611CC	NTE159	TO-92	PNP audio amplifier switch .....	.96	.91	.87
272461CC	NTE159M	TO-18	PNP silicon, general-purpose .....	.78	.76	.74
272479CC	NTE160	TO-72	PNP germanium RF-IF amp., FM mixer osc.	4.09	3.89	3.55
272516CC	NTE171	TO-202	NPN silicon audio/video amplifier	1.85	1.75	1.61
260620CC	NTE172A	TO-92	NPN darlington pre-amp., med. sp. switch .....	.62	.61	.58
260638CC	NTE175	TO-3	NPN comp. trans., hi-volt. med. pwr switch ...	3.29	3.25	3.19
272583CC	NTE180	TO-3	PNP silicon, high-power audio amp.	7.79	7.44	6.78
260646CC	NTE181	TO-3	NPN high-power audio amplifier	6.59	6.29	6.01
260654CC	NTE184	TO-126	NPN comp. trans. audio pwr amp., switch	1.79	1.75	1.69
260662CC	NTE185	TO-126	PNP comp. trans. audio pwr amp., switch	1.89	1.85	1.77
272639CC	NTE192	TO-92SH	NPN audio power output	1.79	1.68	1.53
272655CC	NTE194	TO-92	NPN silicon, audio power amplifier .....	.58	.56	.49
260671CC	NTE196	TO-220	NPN comp. trans. audio pwr output&med. pwr switch	2.45	2.39	2.13
272663CC	NTE197	TO-220	PNP silicon, audio power output	2.35	2.24	2.04
272671CC	NTE198	TO-220	NPN silicon, hi-volt power transistor	2.55	2.43	2.20
260689CC	NTE199	TO-92	NPN low noise, high-gain amplifier .....	.67	.65	.62
272743CC	NTE219	TO-3	PNP silicon, audio pwr amp., med sp switch .	4.15	3.97	3.61
272786CC	NTE232	TO-92	PNP silicon, darl. amp., preamp. ....	.78	.75	.66
260777CC	NTE234	TO-92	PNP low-noise, high-gain amplifier .....	.89	.85	.81

Transistors (Continued)

Package (see pgs 47)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
272866CC	NTE236	B-26	NPN silicon, RF power output	\$9.05	\$7.82	\$7.62
260822CC	NTE238	TO-3	NPN color TV horizontal output	5.55	5.49	5.45
273041CC	NTE243	TO-3	NPN darlington medium power amp.	3.15	2.92	2.68
260857CC	NTE247	TO-3	NPN comp. trans. darlington power amp.	5.29	4.99	4.80
273076CC	NTE248	TO-3	PNP darlington power amplifier	6.05	5.59	5.13
273084CC	NTE249	TO-3	NPN darlington power amplifier	7.89	7.71	7.53
273121CC	NTE251	TO-3	NPN darlington power amplifier	8.19	8.02	7.85
273130CC	NTE252	TO-3	PNP darlington power amplifier	7.99	7.82	7.64
260865CC	NTE253	TO-126	NPN comp. trans. darlington power amp.	1.55	1.49	1.43
273156CC	NTE254	TO-218	PNP darlington power amplifier	2.19	2.10	1.92
260881CC	NTE261	TO-220	NPN comp. trans. darlington power amp.	2.29	2.22	2.15
260890CC	NTE262	TO-220	PNP comp. trans. darlington power amp.	2.55	2.49	2.40
260902CC	NTE263	TO-220	NPN comp. trans. darlington power amp.	2.55	2.39	2.30
260911CC	NTE264	TO-220	PNP comp. trans. darlington power amp.	2.89	2.85	2.75
260929CC	NTE265	TO-220	NPN darlington power amplifier	3.79	3.74	3.65
273172CC	NTE270	TO-218	NPN darlington power amplifier	4.59	4.41	4.07
273181CC	NTE271	TO-218	PNP darl. power amplifier, switch	5.79	5.25	4.67
273199CC	NTE272	TO-202	NPN darlington	13.95	11.85	11.20
273201CC	NTE283	TO-3	NPN silicon, horizontal output, switch	9.79	9.52	9.25
273210CC	NTE284	TO-3	NPN audio power amplifier	9.89	9.64	9.38
260937CC	NTE287	TO-92	NPN comp. trans. hi-volt., general-purpose	.87	.85	.80
260945CC	NTE288	TO-92	PNP comp. trans. hi-volt., general-purpose	.80	.74	.65
260953CC	NTE289A	TO-92	NPN comp. transistor audio power amp. ...	1.22	1.19	1.14
273228CC	NTE290	U-83/TO-92	PNP silicon audio power amp., switch	1.05	1.03	1.00
260961CC	NTE290A	TO-92	PNP comp. transistor audio power amp. ...	1.38	1.34	1.28
260970CC	NTE291	TO-220	NPN comp. trans. medium power amp., switch	2.15	2.09	2.01
273236CC	NTE292	TO-220	PNP silicon med-pwr amp., switch	2.29	2.09	1.73
273244CC	NTE293	TO-92	NPN audio power amp. and driver	1.65	1.55	1.41
273252CC	NTE294	TO-92	PNP silicon, audio amp. and driver	1.65	1.55	1.41
273261CC	NTE295	TO-126	NPN silicon, RF pwr output, driver	2.99	2.77	2.55
260988CC	NTE311	TO-39	NPN frequency multiplier driver, VHF/UHF ..	2.79	2.75	2.67
260996CC	NTE316	TO-39	NPN high-gain, low-noise amp.	3.09	3.02	2.95
273615CC	NTE323	TO-39	PNP silicon, general-purpose	3.29	3.13	2.85
273623CC	NTE324	TO-39	NPN silicon complementary transistor	4.25	3.92	3.59
261008CC	NTE331	TO-220	NPN comp. trans. audio power amp., switch	2.89	2.74	2.61
261016CC	NTE332	TO-220	PNP comp. trans. audio power amp., switch	2.89	2.75	2.62
261024CC	NTE373	TO-126	NPN comp. transistor audio amp. driver ...	1.69	1.64	1.57
261032CC	NTE374	TO-126	PNP comp. transistor audio amp. driver ...	1.75	1.65	1.61
273666CC	NTE375	TO-220	NPN silicon, TV vertical output	2.19	2.01	1.66
273674CC	NTE377	TO-220	NPN silicon, pwr amp. driver, output, switch	2.49	2.39	2.16
261041CC	NTE378	TO-220	PNP comp. trans. pwr amp. driver output switch	2.75	2.55	2.46
261059CC	NTE379	TO-220	NPN power amp. high-voltage switch	7.15	7.09	6.99
273682CC	NTE382	TO-92	NPN silicon, AF driver output	2.05	1.97	1.72
273691CC	NTE383	R-245	PNP silicon, audio frequency driver	1.65	1.55	1.41
273703CC	NTE384	TO-66	NPN silicon high-volt. pwr amp., switch ...	5.59	5.35	4.85
273711CC	NTE385	TO-3	NPN silicon, audio power amp., switch ...	8.55	8.37	8.18
273720CC	NTE386	TO-3	NPN silicon, audio power amp., switch ...	17.69	17.22	16.74
273738CC	NTE388	TO-3	NPN silicon, gen-purpose hi-pwr audio ...	11.65	10.99	9.99
273746CC	NTE392	TO-218	NPN silicon, general-purpose amp.	5.59	5.33	4.83
273754CC	NTE393	TO-218	PNP silicon, general-purpose amp.	5.19	4.97	4.58
273762CC	NTE395	TO-72	PNP silicon, wide-band linear amplifier ...	3.25	2.82	2.63
273771CC	NTE396	TO-39	NPN silicon, pwr amp. & hi-speed switch	2.45	2.37	2.07
261067CC	NTE397	TO-39	PNP power amp. & high-speed switch	2.75	2.51	2.23
273789CC	NTE398	TO-220	PNP silicon TV vertical output	2.29	2.07	1.71
261075CC	NTE399	TO-92	NPN high-voltage video amp.	2.75	2.64	2.52
261091CC	NTE473	TO-39	NPN RF power driver	5.19	5.15	5.09
260700CC	NTE2300	TO-3P	NPN high-voltage horizontal output	5.09	4.59	4.13
272751CC	NTE2302	TO-3P	NPN silicon, color TV horiz. deflection output	6.29	6.16	6.02
272760CC	NTE2308	TO-3P	NPN silicon, hi-volt, hi-current switch	6.49	6.19	5.64
260718CC	NTE2311	TO-218	NPN high-voltage high-speed switch	14.25	13.45	12.82
260726CC	NTE2312	TO-220	NPN high-voltage high-speed switch	4.75	4.49	4.30
272778CC	NTE2319	TO-3	NPN silicon, hi-volt, hi-speed pwr switch	6.89	6.73	6.56
272794CC	NTE2321	DIP-14	NPN silicon, quad general-purpose	3.35	3.00	2.71
260734CC	NTE2322	DIP-14	PNP quad general-purpose	2.85	2.57	2.28
260742CC	NTE2324	TO-220	NPN color TV horiz. deflection output	8.55	8.15	7.96
272807CC	NTE2325	TO-220	NPN silicon, high-voltage switch	2.55	2.15	2.10
272815CC	NTE2328	TO-126	NPN silicon complementary trans.	6.69	6.02	5.42

Please call our sales rep if you cannot find a specific NTE replacement product. We also offer special pricing on large quantity orders.



Transistors (Continued)

Package Description (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
260751CC	NTE2329	TO-126	PNP comp. trans. audio power output	\$5.75	\$5.69	\$5.65
260769CC	NTE2331	TO-220	NPN color TV horiz. deflection output w/ damper diode	6.85	6.79	6.75
272823CC	NTE2333	TO-220	NPN silicon, power transistor	3.05	2.98	2.91
260785CC	NTE2343	TO-220	NPN comp. trans., darlington pwr amp., switch	2.09	1.95	1.92
272831CC	NTE2354	TO-3P	NPN silicon, hi-volt horizontal output	11.69	11.05	10.04
272840CC	NTE2355	TO-92	NPN silicon w/ 10k bias resistor .....	.84	.81	.74
260793CC	NTE2344	TO-220	PNP comp. trans., darlington pwr amp., switch...	1.65	1.55	1.51
260806CC	NTE2349	TO-3	NPN darlington trans., hi-curr. gen-purpose	15.65	15.39	15.25
260814CC	NTE2353	TO-220	NPN TV horiz. deflection output w/ damper diode	5.75	5.69	5.65
272858CC	NTE2356	TO-92	PNP silicon, w/ 2 10k bias resistors .....	.78	.65	.63
272874CC	NTE2361	TO-92	NPN silicon, high-speed switch .....	.62	.60	.55
272882CC	NTE2362	TO-92	PNP silicon, high-speed switch .....	.96	.79	.77
272891CC	NTE2363	TO-92	NPN silicon, hi-curr. gen-pur. amp./switch ....	.75	.62	.60
272903CC	NTE2365	TO-126	NPN silicon, hi-volt TV horiz defl. output	14.79	14.44	14.09
273025CC	NTE2406	SOT-23	NPN silicon, gen-purpose amp., SMT	1.45	1.39	1.28
273033CC	NTE2407	SOT-23	PNP silicon, gen-purpose amp., SMT	1.55	1.49	1.37
260831CC	NTE2408	SOT-23	NPN general-purpose amp. (2/pk.)	1.25	1.19	1.15
260849CC	NTE2409	SOT-23	PNP general-purpose amp. (2/pk.)	1.25	1.19	1.15
273050CC	NTE2430	SOT-89	NPN silicon, high-volt amp./switch	1.75	1.71	1.67
273068CC	NTE2431	SOT-89	PNP silicon, high-volt amp./switch	1.59	1.55	1.51
273092CC	NTE2501	TO-126ML	NPN silicon, high-volt for video output	1.75	1.66	1.51
273105CC	NTE2507	TO-220	NPN silicon high-freq. video output	5.95	5.33	4.79
273113CC	NTE2508	TO-126ML	NPN video output for HDTV	1.49	1.45	1.41
273148CC	NTE2521	TO-126ML	NPN video output for HDTV	5.15	4.45	4.19
260873CC	NTE2543	TO-220	NPN darlington motor/relay driver	3.29	3.25	3.19
273164CC	NTE2582	TO-220	NPN silicon hi-speed switching reg.	4.19	4.10	4.01
275012CC	NTE6401	TO-18	Silicon unijunction	5.65	5.51	5.37
275021CC	NTE6402	TO-98/TO-92	Silicon programmable unijunction	1.39	1.35	1.18
275047CC	NTE6409	TO-18	Silicon unijunction	6.05	5.92	5.78
261121CC	NTE6410	TO-92	Unijunction transistor	4.79	4.75	4.69
272487CC	NTE16004	TO-39	PNP silicon, hi-current, gen-purpose	1.79	1.75	1.70

JFETs

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
272321CC	NTE133	TO-106	N-ch JFET general-purpose AF amp.	\$9.1	\$8.9	\$8.7
273578CC	NTE312	TO-92	N-ch JFET	1.25	1.23	1.20
273631CC	NTE326	TO-92	P-ch JFET general-purpose AF amp.	1.45	1.39	1.26
273906CC	NTE451	TO-92	N-ch JFET UHF/VHF amplifier	1.65	1.61	1.57
260427CC	NTE457	TO-92	N-ch JFET general-purpose	1.04	.99	.95
260435CC	NTE458	TO-92	N-ch JFET low-noise, audio-freq. amp.	1.69	1.65	1.59
273949CC	NTE466	TO-18	N-ch JFET chopper, high-speed switch	2.79	2.56	2.33

MOSFETs

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
275055CC	NTE66	TO-220	N-ch enhancement mode hi-speed switch	\$6.89	\$6.58	\$5.99
260443CC	NTE222	TO-39	Dual gate N-channel MOSFET	10.55	9.59	8.95
273957CC	NTE490	TO-92	N-ch enhancement mode hi-speed switch ....	.81	.80	.78
273981CC	NTE491	TO-92	N-ch enhancement mode hi-speed switch ....	.63	.62	.60
272911CC	NTE2371	TO-220	P-ch enhancement mode	6.89	6.75	6.61
272920CC	NTE2374	TO-220	N-ch enhancement mode	4.29	4.00	3.70
272938CC	NTE2377	TO-3P	N-ch enhancement mode hi-speed switch ..	10.85	10.55	10.24
272946CC	NTE2379	TO-220	N-ch enhancement mode	4.09	4.00	3.91
272954CC	NTE2382	TO-220	N-ch enhancement mode hi-speed switch	3.59	3.43	3.11
272962CC	NTE2383	TO-220	P-ch enhancement mode hi-speed switch	7.89	7.54	6.86
272971CC	NTE2385	TO-220	N-ch enhancement mode hi-speed switch	5.59	4.77	4.53
272989CC	NTE2387	TO-220	N-ch enhancement mode hi-speed switch	9.79	9.56	9.32
272997CC	NTE2388	TO-220	N-ch enhancement mode hi-speed switch	6.09	5.67	5.04
260451CC	NTE2389	TO-220	N-ch enhancement mode hi-speed switch	5.35	5.15	4.91
260460CC	NTE2394	TO-126	N-ch enhancement mode hi-speed switch ...	11.25	11.19	11.09
260478CC	NTE2395	TO-220	N-ch enhancement mode hi-speed switch	5.59	5.39	5.15
273009CC	NTE2396	TO-220	N-ch enhancement mode hi-speed switch	5.09	4.59	4.13

MOSFETs (continued)

Package Description (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
260486CC	NTE2397	TO-220	N-ch enhancement mode hi-speed switch ..	\$5.59	\$5.39	\$5.15
260494CC	NTE2398	TO-220	N-ch enhancement mode hi-speed switch	3.75	3.69	3.65
273279CC	NTE2987	TO-220	N-ch enhancement mode hi-speed switch	6.59	6.44	6.29

Diodes

Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
259418CC	NTE109	DO-7	Germanium fast switching	\$1.18	\$1.14	\$1.10
272268CC	NTE110A	DO-7	Germanium general-purpose	1.09	.99	.89
272276CC	NTE110MP	DO-7	Germanium point contact	1.55	1.47	1.39
259426CC	NTE112	DO-35	Silicon small signal schottky	1.48	1.34	1.20
259434CC	NTE177	DO-35	Silicon general-purpose .....	.30	.28	.26
259442CC	NTE519	DO-7	Silicon ultra-fast switch .....	.34	.31	.29
274431CC	NTE525	DO-41	Silicon high-volt, fast-recovery switch	2.55	2.44	2.20
274634CC	NTE553	DO-35	Schottky barrier diode .....	.91	.89	.87
259451CC	NTE570	DO-7	Silicon controlled avalanche diode	1.23	1.19	1.15
259469CC	NTE583	DO-7	Schottky RF switch	1.27	1.22	1.19
274853CC	NTE585	DO-41	Schottky barrier, fast switching .....	.92	.91	.78
274861CC	NTE586	DO-27	Schottky barrier, fast switching	1.75	1.67	1.59
274870CC	NTE587	DO-41	Silicon ultra-fast switching .....	.82	.80	.69
259477CC	NTE588	DO-7	Silicon 200V, 3A fast switch	1.25	1.21	1.16
274917CC	NTE593	SOT-23	Silicon, high-speed switch	1.75	1.68	1.59
274925CC	NTE596	SOT-23	Silicon, dual diode, common anode	1.69	1.65	1.61
259485CC	NTE618	—	Silicon tuning diode for AM radio, varactor ...	1.79	1.75	1.69

Zener Diodes

Package (see above)

Part No.	Cross Ref.	Pkg.	Voltage	Wattage	Qty.	1	10	25
274028CC	NTE5002A	DO-35	2.7V	1/2W	1/pk. ....	.73	.72	.70
274036CC	NTE5004A	DO-35	3V	1/2W	1/pk. ....	.73	.72	.70
274044CC	NTE5005A	DO-35	3.3V	1/2W	1/pk. ....	.73	.72	.70
274052CC	NTE5007A	DO-35	3.9V	1/2W	1/pk. ....	.51	.48	.44
274061CC	NTE5009A	DO-35	4.7V	1/2W	1/pk. ....	.51	.48	.44
259565CC	NTE5010A	DO-35	5.1V	1/2W	1/pk. ....	.39	.36	.33
274079CC	NTE5011A	DO-35	5.6V	1/2W	1/pk. ....	.51	.48	.43
274087CC	NTE5012A	DO-35	6V	1/2W	1/pk. ....	.73	.72	.70
274095CC	NTE5013A	DO-35	6.2V	1/2W	1/pk. ....	.51	.48	.44
274108CC	NTE5014A	DO-35	6.8V	1/2W	1/pk. ....	.51	.48	.44
274116CC	NTE5015A	DO-35	7.5V	1/2W	1/pk. ....	.73	.72	.70
274124CC	NTE5018A	DO-35	9.1V	1/2W	1/pk. ....	.73	.72	.70
274132CC	NTE5019A	DO-35	10V	1/2W	1/pk. ....	.49	.48	.42
259573CC	NTE5021A	DO-35	12V	1/2W	1/pk. ....	.49	.45	.40
259581CC	NTE5024A	DO-35	15V	1/2W	1/pk. ....	.49	.48	.47
274141CC	NTE5031A	DO-35	24V	1/2W	1/pk. ....	.73	.72	.70
274159CC	NTE5035A	DO-35	30V	1/2W	1/pk. ....	.73	.72	.70
274167CC	NTE5057A	DO-35	170V	1/2W	1/pk. ....	.73	.72	.70
272330CC	NTE134A	DO-35	3.6V	1W	2/pk. ....	.52	.50	.48
259493CC	NTE135A	DO-35	5.1V	1W	2/pk. ....	.53	.51	.49
259506CC	NTE136A	DO-35	5.6V	1W	2/pk. ....	.44	.41	.39
272348CC	NTE137A	DO-35	6.2V	1W	2/pk. ....	.56	.54	.47
259514CC	NTE138A	DO-35	7.5V	1W	2/pk. ....	.53	.50	.47
272356CC	NTE139A	DO-35	9.1V	1W	2/pk. ....	.52	.49	.47
272364CC	NTE140A	DO-35	10V	1W	2/pk. ....	.52	.50	.47
259522CC	NTE142A	DO-35	12V	1W	2/pk. ....	.56	.55	.53
259531CC	NTE143A	DO-35	13V	1W	2/pk. ....	.44	.41	.39
272372CC	NTE144A	DO-35	14V	1W	2/pk. ....	.63	.60	.57
259549CC	NTE145A	DO-35	15V	1W	2/pk. ....	.44	.41	.39
272381CC	NTE146A	DO-35	27V	1W	2/pk. ....	.51	.49	.44
259557CC	NTE147A	DO-35	33V	1W	2/pk. ....	.44	.41	.39
274183CC	NTE5066A	DO-35	3.3V	1W	2/pk.	2.15	2.12	2.08
274191CC	NTE5069A	DO-35	4.7V	1W	2/pk.	1.45	1.39	1.26
274204CC	NTE5071A	DO-35	6.8V	1W	2/pk.	1.45	1.39	1.26
274212CC	NTE5072A	DO-35	8.2V	1W	2/pk.	1.85	1.81	1.77

Please call our sales rep if you cannot find a specific NTE replacement product. We also offer special pricing on large quantity orders.

Zener Diodes (Continued)

Package Description (see pg 47)

Part No.	Cross Ref.	Pkg.	Voltage	Wattage	Qty.	1	10	25
274221CC	NTE5075A	DO-35	16V	1W	2/pk.	\$1.85	\$1.81	\$1.77
259590CC	NTE5077A	DO-35	18V	1W	2/pk.	1.42	1.38	1.32
274239CC	NTE5079A	DO-35	20.0V	1W	2/pk.	1.45	1.39	1.26
274247CC	NTE5080A	DO-35	22.0V	1W	2/pk.	2.15	2.12	2.08
274255CC	NTE5081A	DO-35	24V	1W	2/pk.	1.85	1.81	1.77
274263CC	NTE5084A	DO-35	30V	1W	2/pk.	1.45	1.39	1.26
274271CC	NTE5085A	DO-35	36V	1W	2/pk.	1.85	1.81	1.77
274280CC	NTE5093A	DO-35	75V	1W	2/pk.	1.85	1.81	1.77
274298CC	NTE5096A	DO-35	100V	1W	2/pk.	1.85	1.81	1.77
274319CC	NTE5100A	DO-35	150V	1W	2/pk.	1.45	1.38	1.20
259602CC	NTE5105A	DO-35	200V	1W	2/pk.	1.85	1.57	1.17
274327CC	NTE5116A	DO-35	5.1V	5W	1/pk.	2.05	2.00	1.95
274335CC	NTE5127A	DO-35	12V	5W	1/pk.	1.45	1.39	1.26
259611CC	NTE5130A	DO-35	15V	5W	1/pk.	1.46	1.39	1.32
274343CC	NTE5131A	DO-35	16V	5W	1/pk.	2.05	2.00	1.95
274351CC	NTE5133A	DO-35	18V	5W	1/pk.	2.05	2.00	1.95
274360CC	NTE5137A	DO-35	24V	5W	1/pk.	1.45	1.38	1.20
274378CC	NTE5139A	DO-35	27V	5W	1/pk.	2.05	1.99	1.95
259629CC	NTE5141A	DO-35	30V	5W	1/pk.	2.05	2.01	1.97
274386CC	NTE5142A	DO-35	33V	5W	1/pk.	1.25	1.15	1.01
274394CC	NTE5147A	DO-35	51V	5W	1/pk.	2.05	1.99	1.95
259637CC	NTE5164A	DO-35	180V	5W	1/pk.	2.05	2.01	1.97

Transient Voltage Suppressors

Package Description (see pg 47)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
261278CC	NTE4900	DO-35	5.0V	\$2.19	\$2.15	\$2.09
273965CC	NTE4902	DO-15	6.45V _{BR} 5.80V	3.39	3.32	3.23
273973CC	NTE4903	DO-15	6.12V _{BR} 5.50V	3.39	3.31	3.22
273990CC	NTE4928	DO-15	19V _{BR} 17.1V	2.39	2.33	2.27
274001CC	NTE4951	DO-15	48.5V _{BR} 43.6V	3.39	3.31	3.22
274010CC	NTE4993	DO-15	304V _{BR} 273V	1.85	1.50	1.46

Rectifiers

Package Description (see pg 47)

Part No.	Cross Ref.	Pkg.	Description	PRV	AFC	1	10	25
259813CC	NTE116	DO-41	Rectifier	600V	1A	\$4.49	\$4.45	\$4.42
259821CC	NTE125	DO-41	Rectifier	1000V	2.5A	.50	.48	.45
259830CC	NTE156	DO-41	Rectifier	1000V	3A	.67	.63	.60
272436CC	NTE156A	—	Rectifier	1000V	3A	.72	.67	.61
259645CC	NTE506	DO-41	Rectifier	1400V	2A	1.10	1.06	1.02
274407CC	NTE517	—	Rectifier	15000V	200A	5.05	4.95	4.85
259848CC	NTE541	DO-35	Rectifier	8400V	50A	8.39	8.29	8.25
259856CC	NTE552	DO-41	Rectifier	600V	1A	.93	.90	.87
259864CC	NTE558	DO-41	Rectifier	1500V	1A	1.69	1.63	1.57
259872CC	NTE569	DO-41	Rectifier	600V	3A	1.12	1.03	.95
274781CC	NTE571	—	Rectifier	1000V	2.9A	.64	.61	.58
274790CC	NTE572	—	Rectifier	1000V	6A	1.05	1.03	1.00
259881CC	NTE574	DO-41	Rectifier	400V	1A	.58	.53	.48
274811CC	NTE575	DO-41	Rectifier	1000V	1A	.67	.65	.56
259899CC	NTE576	DO-41	Rectifier	400V	5A	1.85	1.79	1.73
274829CC	NTE579	DO-27	Rectifier	90V	3A	2.59	2.39	2.19
259901CC	NTE577	DO-41	Rectifier	1000V	5A	3.59	3.45	3.33
259910CC	NTE580	SOD57	Rectifier	600V	3A	2.75	2.59	2.47
274933CC	NTE597	TO-220	Rectifier	200V	8A	1.69	1.61	1.53
260021CC	NTE598	DO-220/2	Rectifier	600V	8A	2.15	2.11	2.08
274992CC	NTE622	DO-213AA	Rectifier	400V	0.5A	2.29	2.26	2.22
274802CC	NTE5740	—	Rectifier	800V	30A	36.79	29.43	28.15
259928CC	NTE5800	DO-41	Rectifier	50V	3A	.33	.31	.30
259936CC	NTE5801	DO-41	Rectifier	100V	3A	.48	.45	.44
274837CC	NTE5802	DO-27	Rectifier	200V	3A	.58	.53	.50
259944CC	NTE5804	DO-41	Rectifier	400V	3A	.60	.56	.54
259952CC	NTE5806	DO-41	Rectifier	600V	3A	.94	.92	.88
274845CC	NTE5808	DO-27	Rectifier	800V	3A	1.19	1.10	.99
259961CC	NTE5809	DO-41	Rectifier	1000V	3A	1.39	1.31	1.25
259979CC	NTE5812	T6L	Rectifier	100V	6A	.91	.87	.84
259987CC	NTE5814	T6L	Rectifier	400V	6A	2.59	1.45	1.40
259995CC	NTE5815	T6L	Rectifier	600V	6A	2.49	2.27	2.15
260005CC	NTE5817	T6L	Rectifier	1000V	6A	2.29	2.14	2.04

Rectifiers (Continued)

Package Description (see pgs 47)

Part No.	Cross Ref.	Pkg.	Description	PRV	AFC	1	10	25
260013CC	NTE5870	DO-4	Rectifier	50V	12A	\$2.59	\$2.49	\$2.38
274888CC	NTE5874	DO-4	Rectifier	200V	12A	3.35	2.82	2.50
274896CC	NTE5882	DO-4	Rectifier	600V	12A	4.49	4.27	4.05
274909CC	NTE5890	DO-4	Rectifier	1000V	12A	8.69	7.38	6.55
274941CC	NTE5980	DO-4	Rectifier	50V	40A	3.89	3.80	3.70
274950CC	NTE5994	DO-4	Rectifier	600V	40A	8.65	8.45	8.25
274968CC	NTE5995	DO-4	Rectifier	600V	40A	8.65	8.45	8.25
260030CC	NTE6013	TO-220	Rectifier	600V	12.7A isolated	3.75	3.69	3.61
274984CC	NTE6154	DO-8	Rectifier	400V	150A	26.59	25.93	25.28
260048CC	NTE6240	TO-220	Rectifier	200V	16A	3.95	3.77	3.59
275004CC	NTE6244	TO-220	Rectifier, dual	200V	16A	4.89	4.78	4.67
259653CC	NTE166	BR8D	Bridge rectifier	100V	2A	1.10	1.06	1.02
259661CC	NTE167	BR8D	Bridge rectifier	200V	2A	1.75	1.69	1.62
259670CC	NTE168	BR8D	Bridge rectifier	400V	2A	1.95	1.86	1.79
272508CC	NTE169	BR8D	Bridge rectifier	600V	2A	2.09	2.02	1.78
259688CC	NTE170	BR8D	Bridge rectifier	1000V	2A	2.85	2.79	2.75
259696CC	NTE5304	WOM	Bridge rectifier	400V	1.5A	1.32	1.28	1.23
259709CC	NTE5305	WOM	Bridge rectifier	600V	1.5A	1.47	1.42	1.39
274458CC	NTE5309	BR8D	Bridge rectifier	200V	4A	2.79	2.73	2.66
274466CC	NTE5310	BR8D	Bridge rectifier	600V	4A	2.79	2.42	2.22
259717CC	NTE5312	GBPC	Bridge rectifier	100V	8A	3.89	3.70	3.53
259725CC	NTE5313	GBPC	Bridge rectifier	200V	8A	3.79	3.65	3.48
259733CC	NTE5314	GBPC	Bridge rectifier	400V	8A	3.95	3.74	3.59
274474CC	NTE5315	GBPC	Bridge rectifier	600V	8A	4.45	4.08	3.63
274482CC	NTE5318	—	Bridge rectifier	200V	4A	2.19	2.14	2.08
259741CC	NTE5322	TB35	Bridge rectifier	200V	25A	5.65	5.38	5.13
274491CC	NTE5324	TB35	Bridge rectifier	400V	25A	5.99	5.84	5.69
259750CC	NTE5326	TB35	Bridge rectifier	600V	25A	7.59	7.20	6.90
274503CC	NTE5328	TB35	Bridge rectifier	1000V	25A	7.89	7.69	7.50
259768CC	NTE5329	BR8D	Bridge rectifier	200V	6A	3.65	3.46	3.30
274511CC	NTE5330	BR8D	Bridge rectifier	600V	6A	5.15	5.02	4.90
259776CC	NTE5332	DIP-4	Bridge rectifier	600V	1A	1.49	1.45	1.39
259784CC	NTE5340	—	Bridge rectifier	200V	40A	8.99	8.57	8.17
259792CC	NTE5342	—	Bridge rectifier	600V	40A	11.39	10.79	10.24
259805CC	NTE5344	—	Bridge rectifier	1000V	40A	12.79	12.29	11.80

Silicon Controlled Rectifiers (SCR)

Package Descrip. (see pg 47)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
274538CC	NTE5400	TO-92	30 VRM, 0.8A	\$.79	\$.62	\$.60
260056CC	NTE5401	TO-92	60 VRM, 0.8A	.97	.91	.87
260064CC	NTE5402	TO-92	100 VRM, 0.8A	.97	.89	.78
260072CC	NTE5404	TO-92	200 VRM, 0.8A	1.33	1.29	1.25
274546CC	NTE5405	TO-92	400 VRM, 0.8A	2.19	2.14	2.08
274554CC	NTE5414	TO-126	200 VRM, 4A	1.65	1.61	1.57
274562CC	NTE5424	TO-220	400 VRM, 4.7A, high speed	6.45	6.31	6.17
274571CC	NTE5426	TO-220	400 VRM, 10A	2.59	2.48	2.26
274589CC	NTE5437	TO-220	400 VRM, 8A	2.15	2.10	2.04
274597CC	NTE5455	TO-202	200 VRM, 4A	1.19	1.12	1.02
260081CC	NTE5457	TO-202	400 VRM, 4A	1.33	1.29	1.25
260099CC	NTE5458	TO-202	600 PRV, 4A	2.05	1.99	1.94
274600CC	NTE5460	TO-220	800 VRM, 25A	10.29	10.03	9.76
274618CC	NTE5465	TO-202	400 VRM, 10A	2.75	2.59	2.36
274626CC	NTE5466	TO-202	600 VRM, 10A	4.19	4.00	3.80
274642CC	NTE5547	TO-48	600 VRM, 35A	15.65	15.24	14.83

Diacs/Triacs/Sidacs

Package Description (see pg 47)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
274693CC	NTE5608	TO-220	Triac, 400 VRM, 8A, gate	\$2.55	\$2.33	\$1.93
274706CC	NTE5609	TO-220	Triac, 600 VRM, 8A, gate	3.45	3.37	3.28
274714CC	NTE5620	TO-220	Triac, 800 VRM, 8A, isolated	5.35	4.62	4.50
261147CC	NTE5629	TO-202	Triac, 400 VRM, 4A	1.99	1.89	1.81
274722CC	NTE5635	TO-220	Triac, 400 VRM, 10A	3.49	3.22	2.86
274731CC	NTE5638	TO-220	Triac, 400 VRM, 8A isolated tab	3.05	2.97	2.89
274749CC	NTE5645	TO-220	Triac, 600 VRM, 10A, isolated tab	3.69	3.60	3.51
261155CC	NTE5656	TO-9	Triac, 400 VRM, 0.8A	1.08	1.05	.99
274757CC	NTE5671	TO-220	Triac, 800 VRM, 20A, isolated	5.55	5.45	5.34
274765CC	NTE5679	—	Triac, 600 VRM, 40A	17.19	16.34	15.52

Please call our sales rep if you cannot find a specific NTE replacement product. We also offer special pricing on large quantity orders.



Diacs/Triacs/Sidacs (Continued)

Package Description (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
260110CC	NTE6404	TO-89	SUS, SI, 1.0A	\$8.85	\$8.79	\$8.75
259400CC	NTE6408	DO-35	Diac	.94	.90	.87
260101CC	NTE6419	—	Sidac, 110-125V	2.05	1.99	1.91
274651CC	NTE56008	TO-220	Triac, 600 VRM, 15A	5.09	4.86	4.42
274669CC	NTE56020	TO-220	Triac, 400 VRM, 25A	7.45	7.28	7.10
274677CC	NTE56024	TO-48	Triac, 400 VRM, 40A	13.75	13.38	13.00
274685CC	NTE56026	TO-48	Triac, 600 VRM, 40A	15.55	15.13	14.71

Varistors (MOVs)

Package Description (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
272680CC	NTE1V010	8.5mm	10V _{RMS} , 12VDC, 0.8 joules	\$1.07	\$.87	\$.85
261286CC	NTE1V020	8.5mm	20V _{RMS} , 26VDC, 1.5 joules	1.03	.99	.95
272698CC	NTE1V030	8.5mm	30V _{RMS} , 38VDC, 2.3 joules	1.19	1.15	1.11
261294CC	NTE1V130	8.5mm	135V _{RMS} , 180VDC, 10 joules	1.08	1.03	.99
273287CC	NTE2V010	16mm	10V _{RMS} , 12VDC, 3.5 joules	1.85	1.81	1.76
273295CC	NTE2V025	16mm	25V _{RMS} , 31VDC, 7.0 joules	1.85	1.81	1.76
273308CC	NTE2V030	16mm	30V _{RMS} , 38VDC, 8.5 joules	1.85	1.81	1.76
273316CC	NTE2V035	16mm	35V _{RMS} , 45VDC, 10 joules	1.69	1.40	1.37
273324CC	NTE2V095	16mm	95V _{RMS} , 125VDC, 29 joules	1.85	1.81	1.76
261307CC	NTE2V130	16mm	135V _{RMS} , 180VDC, 39 joules	1.85	1.79	1.75
273332CC	NTE2V150	16mm	150V _{RMS} , 210VDC, 40 joules	2.19	2.14	2.08
261315CC	NTE2V250	16mm	240V _{RMS} , 320VDC, 70 joules	2.65	2.54	2.41
273341CC	NTE2V275	16mm	275V _{RMS} , 330VDC, 72 joules	2.69	2.62	2.55
274415CC	NTE524V13	23mm	130V _{RMS} , 180VDC, 72 joules	2.65	2.40	1.99
274423CC	NTE524V15	23mm	150V _{RMS} , 210VDC, 80 joules	2.75	2.68	2.61
261323CC	NTE524V25	23mm	240V _{RMS} , 320VDC, 129 joules	2.39	2.35	2.29

Thermal Fuses

Package Description (see above)

Part No.	Cross Ref.	Description	Dimensions	1	10	25
275346CC	NTE8070	TCO 72°C, 162°F	3.2"L x .157"Dia.	\$1.15	\$1.12	\$1.09
261163CC	NTE8076	TCO 77°C, 171°F	3.2"L x .157"Dia.	1.13	1.09	1.05
275354CC	NTE8081	TCO 84°C, 184°F	3.2"L x .157"Dia.	1.15	1.11	1.07
261171CC	NTE8085	TCO 87°C, 189°F	3.2"L x .157"Dia.	1.27	1.23	1.18
261180CC	NTE8090	TCO 93°C, 200°F	3.2"L x .157"Dia.	1.13	1.09	1.05
261198CC	NTE8096	TCO 98°C, 208°F	3.2"L x .157"Dia.	1.13	1.09	1.05
261201CC	NTE8098	TCO 100°C, 212°F	3.2"L x .157"Dia.	1.13	1.09	1.05
261219CC	NTE8103	TCO 104°C, 220°F	3.2"L x .157"Dia.	1.13	1.09	1.05
275362CC	NTE8108	TCO 109°C, 229°F	3.2"L x .157"Dia.	1.15	1.05	.95
275371CC	NTE8115	TCO 117°C, 243°F	3.2"L x .157"Dia.	1.19	1.16	1.13
261227CC	NTE8118	TCO 121°C, 250°F	3.2"L x .157"Dia.	1.13	1.09	1.05
275389CC	NTE8125	TCO 128°C, 263°F	3.2"L x .157"Dia.	1.15	1.11	1.07
261235CC	NTE8139	TCO 141°C, 286°F	3.2"L x .157"Dia.	1.27	1.23	1.18
275397CC	NTE8149	TCO 152°C, 306°F	3.2"L x .157"Dia.	1.19	1.11	1.03
275400CC	NTE8167	TCO 169°C, 336°F	3.2"L x .157"Dia.	1.15	1.05	.95
261243CC	NTE8181	TCO 184°C, 364°F	3.2"L x .157"Dia.	1.13	1.09	1.05
275418CC	NTE8182	TCO 192°C, 378°F	3.2"L x .157"Dia.	2.69	2.59	2.30
261251CC	NTE8213	TCO 216°C, 421°F	3.2"L x .157"Dia.	1.13	1.09	1.05
275434CC	NTE8226	TCO 228°C, 443°F	3.2"L x .157"Dia.	1.15	1.11	1.07
261260CC	NTE8242	TCO 240°C, 464°F	3.2"L x .157"Dia.	1.13	1.09	1.05

LEDs

Package Description (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
260363CC	NTE1866	SIP-9	5-point LED VU scale bar level meter driver	\$2.05	\$1.96	\$1.93
273359CC	NTE3007	T1	Red, 4/pk.	1.65	1.61	1.57
273367CC	NTE3008	T1	Red, 2/pk.	1.03	.84	.82
273375CC	NTE3010	T1	Green, 2/pk.	1.15	1.11	1.06
273383CC	NTE3020	T1 3/4	Red, 2/pk.	1.01	.84	.82
273391CC	NTE3021	T1 3/4	Yellow, 2/pk.	1.22	.99	.97
273404CC	NTE3022	T1 3/4	Red, 2/pk.	1.10	.90	.88
260371CC	NTE3024*	T1 3/4	Green 5mm, 2.1Vf@20mA, 8.7mcd@10mA, 565nm	1.31	1.24	1.19

* 2 ea. per pack

LEDs (Continued)

Package Description (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
273412CC	NTE3028	—	Infrared, PN, GAAS	\$4.99	\$4.87	\$4.75
273586CC	NTE3188	T1 3/4	LED-white clear	2.25	2.07	1.88

Optoisolators

Package Description (see pg 47 & above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
273421CC	NTE3032	TO-18	NPN phototransistor detector	\$11.15	\$10.84	\$10.52
273439CC	NTE3034A	—	Phototransistor detector	1.59	1.55	1.51
273447CC	NTE3037	TO-18	NPN phototransistor detector	4.35	4.26	4.16
260380CC	NTE3040	DIP-6	NPN transistor output, 1.5V @ 10mA	1.75	1.68	1.61
260398CC	NTE3041	DIP-6	NPN transistor output, 1.15V @ 10mA	1.75	1.69	1.63
273455CC	NTE3042	DIP-6	NPN transistor	1.65	1.60	1.55
260401CC	NTE3044	DIP-6	NPN darl. trans. output, 1.15V @ 10mA	2.35	2.25	2.19
273463CC	NTE3045	DIP-6	Silicon darlington	2.45	2.39	2.32
260419CC	NTE3047	DIP-6	Triac driver output, 1.15V @ 10mA	2.45	2.04	1.95
273471CC	NTE3048	DIP-6	Triac driver output	3.19	2.89	2.39
273498CC	NTE3083	DIP-6	Optoisolator transistor	2.45	2.39	2.32
273501CC	NTE3084	DIP-6	NPN darlington transistor	2.39	2.33	2.26
273519CC	NTE3086	DIP-8	Dual transistor	3.75	3.66	3.57
273527CC	NTE3089	DIP-6	AC input, transistor	4.29	3.72	3.63
273535CC	NTE3090	DIP-6	Schmitt trigger	3.65	3.57	3.48
273543CC	NTE3098	DIP-4	NPN transistor output	2.09	2.02	1.78
273607CC	NTE3221	DIP-16	4-channel, NPN transistor output	3.35	3.17	2.98
273560CC	NTE3100	—	Opto interrupter	5.39	5.14	4.67

IC Sockets

Package Description (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
272727CC	NTE209	TO-3	Socket, trans, power, 2/pk.	\$2.09	\$2.04	\$1.99
273869CC	NTE409	DIP-14	14-pin DIP socket, 2/pk.	1.25	1.17	1.06
259178CC	NTE416	DIP-16	16-pin DIP socket	2.09	1.85	1.60
259186CC	NTE423	DIP-8	8-pin DIP socket	1.10	1.06	1.02
273885CC	NTE435P6	DIP-6	6-pin DIP socket, 2/pk.	1.39	1.36	1.32

Insulator Kits

Package Description (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	25
273877CC	NTE413	TO-3	Insulator kit, 2/pk.	\$1.39	\$1.29	\$1.20
259160CC	NTE422	TO-220	Insulator kit	1.01	.97	.93
273893CC	NTE439	D05/T048	Insulator kit, stud	.55	.54	.47

NTE Hardware



Part No.	Cross Ref.	Description	1	10	25
259151CC	NTE303	1 gram tube heat sink compound (5/pk.)	\$1.65	\$1.55	\$1.48
259194CC	TP0001	TO-3 Thermo pad (5/pk.)	1.39	1.29	1.25
259282CC	TP0002	TO-66 Thermo pad (5/pk.)	1.15	1.12	1.09
259207CC	TP0003	DO-5 Thermo pad (5/pk.)	.82	.78	.75
259215CC	TP0004	TO-126 Thermo pad (5/pk.)	.69	.65	.63
259223CC	TP0005	TO-218 Thermo pad (5/pk.)	1.36	1.33	1.27
259231CC	TP0006	TO-220 Thermo pad (5/pk.)	1.01	.95	.91
259240CC	TP0007	DO-5 Thermo pad (5/pk.)	1.03	.98	.95
259258CC	TP0008	TO-3 Thermo pad (5/pk.)	1.15	1.12	1.09
259266CC	TP0009	TO-36 Thermo pad (5/pk.)	1.38	1.35	1.29
259274CC	TP0010	TO-3PML Thermo pad (5/pk.)	2.39	2.20	1.95

Optos



DIP-4



DIP-6



DIP-8



DIP-14

Part No.	Cross Ref.	Pkg.	Description	1	10	100
40985CC	4N25	DIP-6	Diode, NPN phototransistor	\$.22	\$.18	\$.17
41005CC	4N26	DIP-6	Diode, NPN phototransistor .....	.25	.22	.18
144240CC	4N27	DIP-6	Diode, NPN phototransistor .....	.24	.191	.185
41013CC	4N28	DIP-6	Diode, NPN phototransistor .....	.46	.372	.282
277421CC	4N29	DIP-6	General purpose photodarlington .....	.26	.21	.193
277456CC	4N30	DIP-6	General purpose photodarlington .....	.26	.216	.185
41021CC	4N32	DIP-6	Diode, NPN photodarlington .....	.26	.24	.18
41030CC	4N33	DIP-6	Diode, NPN photodarlington .....	.25	.24	.22
41056CC	4N35	DIP-6	Diode, NPN phototransistor .....	.39	.35	.25
277464CC	4N36	DIP-6	General purpose phototransistor .....	.20	.18	.17
277481CC	4N38	DIP-6	High-voltage phototransistor .....	.53	.46	.39
277499CC	4N39	DIP-6	Photo SCR optocoupler .....	.91	.82	.74
277501CC	4N40	DIP-6	Photo SCR optocoupler .....	.93	.84	.75
277510CC	6N135	DIP-8	High-speed transistor optocoupler .....	.54	.44	.36
42471CC	6N136	DIP-8	High speed transistor optocoupler .....	.65	.55	.49
113911CC	6N137	DIP-8	High-speed logic optocoupler .....	.71	.60	.45
42489CC	6N138	DIP-8	Low input curr., hi-gain split darlington ....	.65	.55	.41
113929CC	6N139	DIP-8	High-speed, high-gain darlington .....	.65	.55	.445
277561CC	H11A1	DIP-6	General purpose phototransistor .....	.27	.22	.20
18825CC	H11AA1	DIP-6	Dual infrared diode, NPN phototransistor .....	.47	.407	.29
277587CC	H11A2	DIP-6	General purpose phototransistor .....	.30	.21	.17
277595CC	H11A3	DIP-6	General purpose phototransistor .....	.34	.26	.21
281201CC	H11A4	DIP-6	General purpose phototransistor .....	.34	.30	.23
114016CC	H11C1	DIP-6	Photo SCR optocoupler .....	.79	.71	.59
18833CC	H11C3	DIP-6	Photo SCR optocoupler .....	.86	.72	.58
114008CC	H11C4	DIP-6	Photo SCR optocoupler .....	.83	.67	.61
277608CC	H11C6	DIP-6	Photo SCR optocoupler .....	.89	.75	.61
113996CC	H11F1	DIP-6	Isolated FET	1.79	1.49	1.19
277712CC	H11G1	DIP-6	High-voltage photodarlington .....	.51	.47	.39
277721CC	H11G2	DIP-6	High-voltage photodarlington .....	.67	.55	.42
277747CC	H11G3	DIP-6	High-voltage photodarlington .....	.62	.52	.40
113988CC	H11L1	DIP-6	Schmitt trigger output photocoupler .....	.78	.65	.49
138069CC	ISP817-3	DIP-4	Low power transistor output .....	.99	.89	.69
24918CC	MCT6	DIP-8	Dual channel NPN phototransistor .....	.56	.52	.47
26278CC	MOC3010	DIP-6	Bilateral triac driver .....	.56	.52	.345
95020CC	MOC3011	DIP-6	Bilateral triac driver .....	.77	.58	.39
277663CC	MOC3012	DIP-6	Random phase triac driver .....	.76	.58	.44
277780CC	MOC3020	DIP-6	Random phase triac driver .....	.54	.41	.31

Part No.	Cross Ref.	Pkg.	Description	1	10	100
95038CC	MOC3021	DIP-6	Bilateral triac driver	\$.53	\$.45	\$.34
277801CC	MOC3022	DIP-6	Random phase triac driver49	.45	.38
277819CC	MOC3023	DIP-6	Random phase triac driver51	.47	.39
26294CC	MOC3031	DIP-6	Zero crossing triac driver	1.06	.99	.95
113953CC	MOC3032	DIP-6	Zero crossing triac driver61	.55	.52
277827CC	MOC3033	DIP-6	Zero crossing triac driver74	.66	.60
277835CC	MOC3041	DIP-6	Zero crossing triac driver69	.61	.52
113961CC	MOC3042	DIP-6	Zero crossing triac driver65	.58	.50
277843CC	MOC3043	DIP-6	Zero crossing triac driver59	.53	.46
277860CC	MOC3051	DIP-6	Random phase triac driver73	.66	.60
277894CC	MOC3052	DIP-6	Random phase triac driver87	.82	.79
277915CC	MOC3061	DIP-6	Zero crossing phototriac driver64	.59	.50
277931CC	MOC3062	DIP-6	Zero crossing phototriac driver80	.68	.55
133874CC	MOC3063	DIP-6	Zero crossing triac driver	1.25	1.12	.99
160338CC	PS2501-4	DIP-16	Photo darlington & transistor/detector	1.09	1.02	.88
160362CC	PS2502-4	DIP-16	Photo darlington & transistor/detector	1.75	1.61	1.39

Part No.	Cross Ref.	Pkg.	Description	1	10	100
114091CC	H21A1	4-pin w/ tab	Single channel slotted interrupter	\$.69	\$.64	\$.54
278011CC	H21A2	4-pin w/ tab	Phototransistor optical interrupter99	.71	.58
278070CC	H21B1	4-pin w/ tab	Photodarlington optical interrupter87	.78	.71
278088CC	H21B2	4-pin w/ tab	Photodarlington optical interrupter	1.09	.79	.73
278096CC	H21B3	4-pin w/ tab	Photodarlington optical interrupter	1.35	1.19	1.09
114104CC	H22A1	4-pin w/o tab	Slotted optical switch61	.51	.462
278029CC	H22A2	4-pin w/o tab	Slotted optical switch	1.15	1.05	.93
278045CC	H22A3	4-pin w/o tab	Slotted optical switch74	.623	.504
278109CC	H22B1	4-pin w/o tab	Photodarlington optical interrupter68	.61	.56
278117CC	H22B2	4-pin w/o tab	Photodarlington optical interrupter87	.71	.64
196058CC	ITR-8105	4-pin w/o tab	Slotted optical switch48	.42	.38

Visit www.Jameco.com for detailed specifications.

We'll Send It Today!

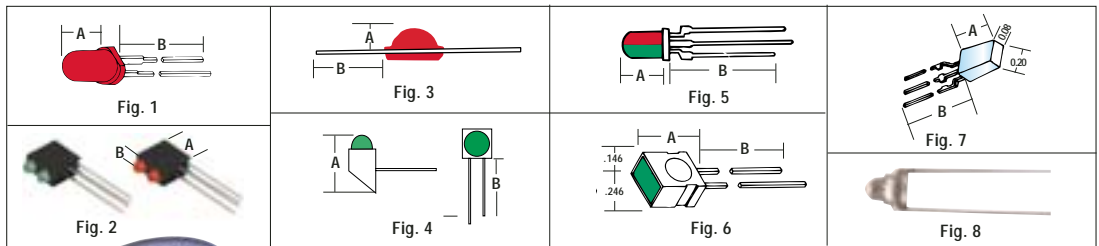
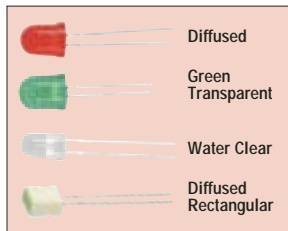
Over 99% of our products are in stock!

Just place your order by 6PM EST for same business day shipment.

CdS Photocells

- Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers
- Generate variable signal based on detection of light levels
- Operating temperature: -30°C to +70°C
- Soldering: 230°C for 3 seconds
- Cadmium Sulfide (CdS)

[illegible]








Standard-Output LEDs

Call for OEM PRICING — we carry major manufacturers.

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
							A*	B*					1	10	100	1000
206480CC	LVY2041	1	Yellow	Yellow transparent	T1	.119/3	0.17	0.69	0.08	2.3 @ 20	450 @ 20	595	*	\$.14	\$.12	\$.10
34657CC	LY2040*	1	Yellow	Yellow diffused (XC209Y)	T1	.119/3	0.16	0.68	0.08	2.3 @ 20	15 @ 10	585	*	.13	.11	.075
206498CC	LHR2041	1	Red	Red transparent	T1	.119/3	0.17	0.69	0.08	2.0 @ 20	350 @ 20	660	*	.15	.12	.09
114673CC	LH2043*	1	Red	Water clear (BR209)	T1	.119/3	0.14	0.98	0.07	2.3 @ 20	12 @ 10	697	*	.19	.15	.12
94529CC	LH2040*	1	Red	Red diffused (XC209RB)	T1	.119/3	0.18	1.04	0.07	2.3 @ 20	4.5 @ 10	697	*	.19	.15	.12
202472CC	MVL-301HR NEW	1	Orange Red	Red diffused	T1	.119/3	0.14	1.12	0.10	2.0 @ 20	9.0 @ 10	640	*	.19	.15	.11
175679CC	LVG2041	1	Green	Green transparent	T1	.119/3	0.17	0.69	0.08	2.2 @ 20	129 @ 20	565	*	.15	.11	.08
114681CC	LVG2043*	1	Green	Water clear (BG209)	T1	.119/3	0.14	0.98	0.07	2.2 @ 20	129 @ 20	565	*	.09	.07	.055
34606CC	LSG2040*	1	Green	Green diffused (XC209G)	T1	.119/3	0.13	1.05	0.08	2.2 @ 20	15 @ 10	560	*	.15	.11	.08
211087CC	LG2040	1	Green	Green diffused	T1	.119/3	0.13	1.10	0.10	2.1 @ 20	12.6 @ 10	565	*	.11	.094	.071
94553CC	LHG2062	1	Red/Green	White diffused bi-color/bi-state [†]	T1	.119/3	0.18	1.06	0.08	2.3 @ 20	3 & 15 @ 10	697/565	.29	.25	.21	.16
137411CC	LVB2040	1	Blue	Blue diffused	T1	.119/3	0.21	0.98	0.10	4.8 @ 20	10 @ 20	430	2.49	2.25	1.95	1.69
107393CC	LE3330	1	Orange Red	Orange diffused (XC556A)	T1 3/4	.197/5	0.30	1.02	0.08	2.3 @ 20	12 @ 10	635	*	.11	.07	.06
206501CC	LVY3331	1	Yellow	Yellow transparent	T1 3/4	.197/5	0.24	1.07	0.07	2.2 @ 20	700 @ 20	595	*	.19	.15	.12
175695CC	LVY3333*	1	Yellow	Water clear	T1 3/4	.197/5	0.30	1.07	0.08	2.1 @ 20	60 @ 10	585	*	.19	.15	.12
34825CC	LY3330*	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	.197/5	0.30	0.82	0.07	2.3 @ 20	12 @ 10	585	*	.19	.15	.12
206519CC	LHR3331	1	Red	Red transparent	T1 3/4	.197/5	0.24	1.07	0.07	2.0 @ 20	660 @ 20	550	*	.19	.15	.12
138860CC	LFH3363	1	Red	Water clear/flash [†]	T1 3/4	.197/5	0.35	1.06	0.10	3-12V	9	697	.49	.45	.39	.29
34745CC	LH3333	1	Red	Water clear (XC554R)	T1 3/4	.197/5	0.30	1.00	0.08	2.3 @ 20	7.5 @ 10	697	*	.15	.11	.065
94511CC	LH3330	1	Red	Red diffused (XC556RB)	T1 3/4	.197/5	0.31	0.81	0.08	2.3 @ 20	3 @ 10	697	*	.17	.13	.10
34690CC	LFH3360*	1	Red	Red diffused/flash [†] (XC5410) [†]	T1 3/4	.197/5	0.30	0.94	0.07	3-12V	2.8	697	.49	.45	.39	.35
134332CC	LT18B3-81UR	1	Blue	Water clear (383UBC)	T1 3/4	.197/5	0.30	0.93	0.10	3.8 @ 20	350 @ 20	428	2.65	2.45	2.25	1.95
137613CC	LSBI3333	1	Blue	Water clear	T1 3/4	.197/5	0.34	0.98	0.08	3.8 @ 20	160 @ 20	430	2.29	2.04	1.63	1.22
138691CC	LVB3330	1	Blue	Blue diffused	T1 3/4	.197/5	0.34	0.98	0.08	4.8 @ 20	10 @ 20	430	2.15	2.04	1.95	1.79
153154CC	LVG3333	1	Green	Water clear (HLMP-8509)	T1 3/4	.197/5	0.36	0.90	0.10	2.3 @ 20	500 @ 20	565	*	.14	.10	.08
11359CC	LG3333*	1	Green	Water clear (BG5704)	T1 3/4	.197/5	0.30	1.04	0.07	2.3 @ 20	100 @ 20	565	*	.22	.20	.16
94561CC	LFG3360	1	Green	Green diff./flash [†] (XC5408) [†]	T1 3/4	.197/5	0.30	1.05	0.08	3-12V	17	565	.59	.53	.48	.43
34761CC	LG3330*	1	Green	Green diffused (XC556G)	T1 3/4	.197/5	0.31	0.79	0.09	2.3 @ 20	12 @ 10	565	*	.15	.14	.10
34711CC	LEG3362*	1	Red/Green	White diffused bi-color/bi-state [†]	T1 3/4	.197/5	0.30	1.01	0.09	2.3 @ 20	7.5 & 8 @ 20	635/565	.33	.28	.22	.19
119634CC	LHR3930	1	Red	Red diffused Jumbo (LT9952L)	T2 1/2	.315/8	0.44	0.84	0.07	2.0 @ 20	100 @ 20	660	.23	.20	.15	.13
137621CC	LVG3930	1	Green	Green diffused Jumbo	T2 1/2	.315/8	0.43	1.04	0.07	2.3 @ 20	40 @ 20	565	.25	.20	.15	.12
138683CC	LHR3630	1	Red	Red diffused XJumbo (XC10R)	T3 1/4	.394/10	0.40	1.04	0.10	2.0 @ 20	100 @ 20	660	.29	.26	.22	.18
98984CC	LVG3630	1	Green	Green diffused XJumbo (XC10G)	T3 1/4	.394/10	0.40	1.07	0.08	2.3 @ 20	40 @ 20	565	.27	.26	.19	.13
98992CC	LY3630	1	Yellow	Yellow diff. XJumbo (XC10Y)	T3 1/4	.394/10	0.54	1.04	0.08	2.3 @ 20	15 @ 20	585	.29	.25	.19	.15
235416CC	LA45B/2G	2	Green	Green diffused (dual)	T1	.119/3	0.40	0.18	0.10	1.7 @ 20	15 @ 10	565	1.29	1.15	.89	.59
136274CC	LA44B/2G	2	Green	Green diffused (dual)	T1	.119/3	0.38	0.17	0.10	2.3 @ 20	15 @ 10	565	.49	.45	.39	.29
235424CC	LA45B/2I	2	Red	Red diffused (dual)	T1	.119/3	0.40	0.18	0.10	1.7 @ 20	12 @ 10	630	1.29	1.15	.89	.59
136282CC	LA44B/2I	2	Red	Red diffused (dual)	T1	.119/3	0.38	0.17	0.10	2.3 @ 20	12 @ 10	630	.49	.45	.39	.29
104248CC	LA93B/H-1*	4	Red	Red diffused (XC410R)	T1 3/4	.197/5	0.35	0.89	0.08	2.3 @ 20	6.5 @ 10	697	*	.23	.19	.17
104256CC	LA93B/G-1*	4	Green	Green diffused (XC410G)	T1 3/4	.197/5	0.35	0.89	0.08	2.3 @ 20	30 @ 10	565	*	.23	.19	.17
104264CC	LA93B/Y-1	4	Yellow	Yellow diffused (XC410Y)	T1 3/4	.197/5	0.35	0.89	0.08	2.3 @ 20	25 @ 10	585	.35	.29	.25	.19
34673CC	LHG3392*	5	Red/Green	White diff. bi-color/tri-state	T1 3/4	.197/5	0.30	1.02	0.03	2.3 @ 20	3 & 12 @ 10	697/565	.24	.22	.20	.14
94545CC	LG25030 ^{††}	6	Green	Green diff. rect. (XC57124G)	3.5 x 6	—	0.26	1.06	0.08	2.3 @ 20	5.2 @ 20	565	*	.19	.16	.15
104889CC	LEG5292 ^{††}	7	Red/Green	White diff. bi-color rectangular	2 x 5	—	0.27	1.02	0.08	2.3 @ 20	6/6 @ 10	695/565	*	.21	.179	1.34

† Reverse polarity to change color † Voltage shown is operating voltage range; no current limiting resistor required †† For Mounting Hardware see pg 53

				Other Manufacturers — Limited Great Deals													
202489CC	MVL-301Y	1	Yellow	Yellow diffused	T1	.119/3	0.14	1.12	0.10	2.1 @ 20	9.0 @ 10	585	*	\$.171	\$.145	(\$.109)	
211086CC	LTL-4231N-022	1	Green	Green diffused	T1	.119/3	0.13	1.10	0.10	2.1 @ 20	12.6 @ 10	565	*	.099	.084	(.063)	
202471CC	MVL-301HR	1	Orange Red	Red diffused	T1	.119/3	0.14	1.12	0.10	2.0 @ 20	9.0 @ 10	640	*	.171	.145	(.109)	
210825CC	BVU-5MION1	1	Orange Red	Red diffused	T1 3/4	.197/5	0.30	1.07	0.08	2.1 @ 20	600 @ 20	615	.44	.405	.351	.315	
135597CC	LTL307E*	1	Orange Red	Red diffused	T1 3/4	.197/5	0.34	1.00	0.07	2.0 @ 20	19 @ 10	635	*	.144	.09	.081	
26745CC	MCDL-170EC	3	Red	Water clear	T 3/4	.083/2.1	0.06	0.25	0.11	2.1 @ 20	7 @ 10	635	.23	.207	.189	.18	
176532CC	MV50G	8	Green	Water clear	T 3/4	.069/1.7	0.06	0.40	0.08	2.1 @ 20	300 @ 20	568	*	.108	.097	.088	

*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 53

High-Output LEDs

• Typical DC forward current 20mA

See page 53 for LED Mounting Hardware



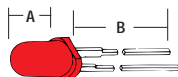
Fig. 1



Fig. 2

Part No.	Mfr. Cross Reference No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
							A"	B"					1	10	100	1000
217525CC	MCDPW-3004C	1	White	Water clear	T1	.119/3	0.18	1.00	0.10	3.8 @ 20	3000 @ 20	—	\$2.99	\$2.85	\$2.69	\$2.55
142893CC	BVU-5E1WK4-B	1	White	Water clear	T1 3/4	.197/5	0.34	0.79	0.08	3.5 @ 20	3700 @ 20	—	3.95	3.59	2.95	2.75
183231CC	BVU-5C14WK4-B	1	White	Water clear	T1 3/4	.197/5	0.30	1.06	0.08	3.5 @ 20	3000 @ 20	—	2.95	2.65	2.39	2.15
183222CC	MCDL-513SBC4	1	Blue	Water clear	T1 3/4	.197/5	0.29	1.02	0.08	3.6 @ 20	3000 @ 20	470	3.25	2.95	2.65	2.39
183214CC	MCDPG-503PC1	1	Green	Water clear	T1 3/4	.197/5	0.30	1.04	0.08	3.5 @ 20	2200 @ 20	515	2.95	2.65	2.39	2.15
131895CC	TLSH180P	1	Orange	Water clear	T1 3/4	.197/5	0.39	0.80	0.10	2.1 @ 20	10000 @ 20	623	2.49	2.19	1.95	1.79
197683CC	BVT-5E1QT4ER	1	Orange Red	Water clear	T1 3/4	.197/5	0.29	1.08	0.08	2.3 @ 20	4650 @ 20	634	.69	.59	.49	.39
197616CC	BVU-5E1QH4E	1	Red	Water clear	T1 3/4	.197/5	0.30	1.05	0.08	1.8 @ 20	2180 @ 20	630	.39	.35	.29	.25
152864CC	BVU-501RD4	2	Red Super Bright	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	1.9 @ 20	1000 @ 20	660	.29	.24	.19	.15
197675CC	BVT-5E1TT4E	1	Yellow	Water clear	T1 3/4	.197/5	0.30	1.08	0.08	2.3 @ 20	2800 @ 20	592	.45	.36	.29	.27
197641CC	BVT-529TT3E	2	Yellow	Yellow transparent	Oval	.170/.220	0.29	1.04	0.08	2.3 @ 20	7800 @ 20	592	.69	.62	.55	.49

HLMP Series LEDs



* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
						A"	B"					1	10	100	1000
253278CC	HLMP-1301	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.9 @ 10	5.4 @ 10	635	*	\$1.37	\$1.12	\$0.98
253366CC	HLMP-1321	Red	Tinted	T1	.119/3	0.19	1.00	0.10	1.9 @ 10	30 @ 10	635	*	.167	.13	.10
253551CC	HLMP-1340	Red	Clear	T1	.119/3	0.19	1.00	0.10	1.9 @ 20	55 @ 10	635	*	.122	.105	.076
253690CC	HLMP-1700	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.7 @ 2	2.1 @ 2	635	*	.132	.105	.086
253702CC	HLMP-K101	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.8 @ 20	45 @ 20	645	*	.203	.133	.106
253711CC	HLMP-K105	Red	Clear	T1	.119/3	0.19	1.00	0.10	2.2 @ 20	65 @ 20	645	*	.169	.152	.113
253729CC	HLMP-K150	Red	Diffused	T1	.119/3	0.19	1.00	0.10	1.8 @ 1	2.0 @ 1	645	*	.216	.171	.097
253631CC	HLMP-1503	Green	Diffused	T1	.119/3	0.19	1.00	0.10	2.1 @ 10	1.0 @ 10	565	*	.103	.076	.061
253649CC	HLMP-1521	Green	Tinted	T1	.119/3	0.19	1.00	0.10	2.7 @ 10	6.7 @ 10	565	*	.216	.171	.095
253657CC	HLMP-1523	Green	Diffused	T1	.119/3	0.19	1.00	0.10	2.1 @ 10	7.0 @ 10	565	.32	.244	.171	.095
253665CC	HLMP-1540	Green	Clear	T1	.119/3	0.19	1.00	0.10	45 @ 20	2.2 @ 20	565	*	.132	.105	.086
253681CC	HLMP-1790	Green	Diffused	T1	.119/3	0.19	1.00	0.10	2.2 @ 2	2.3 @ 2	565	*	.132	.105	.099
253673CC	HLMP-1719	Yellow	Diffused	T1	.119/3	0.19	1.00	0.10	2.5 @ 2	2.1 @ 2	583	*	.132	.105	.086
253614CC	HLMP-1401	Yellow	Diffused	T1	.119/3	0.19	1.00	0.10	2.0 @ 10	2.2 @ 10	583	*	.137	.112	.098
253622CC	HLMP-1440	Yellow	Clear	T1	.119/3	0.19	1.00	0.10	2.1 @ 20	45 @ 20	583	*	.122	.105	.076
253745CC	HLMP-3300	Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.2 @ 10	3.5 @ 10	635	.33	.263	.188	.113
253753CC	HLMP-3301	Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	635	*	.16	.143	.095
253788CC	HLMP-3750	Red	Clear	T1 3/4	.197/5	0.36	0.90	0.10	1.9 @ 20	125 @ 20	635	*	.141	.105	.07
253817CC	HLMP-4700	Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	1.7 @ 2	2.3 @ 2	626	.31	.244	.171	.095
253841CC	HLMP-D101	Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.2 @ 20	70 @ 20	645	*	.207	.171	.119
253850CC	HLMP-D150	Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	1.8 @ 1	3.0 @ 1	645	.31	.244	.171	.096
11797CC	QLMP-D141*	Red	Water Clear	T1 3/4	.197/5	0.29	1.05	0.07	2.0 @ 20	350 @ 20	660	*	.19	.16	.12
253868CC	HLMP-D401	Orange Red	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	600	*	.14	.127	.126
203553CC	HLMP-4100	Orange Red	Water Clear	T1 3/4	.197/5	0.33	1.07	0.08	2.1 @ 20	600 @ 20	615	.29	.25	.20	.15
253770CC	HLMP-3507	Green	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.1 @ 10	4.2 @ 10	565	*	.169	.143	.095
253809CC	HLMP-3950	Green	Clear	T1 3/4	.197/5	0.36	0.90	0.10	1.5 @ 20	265 @ 20	565	*	.244	.171	.095
253833CC	HLMP-4740	Green	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.2 @ 2	2.3 @ 2	565	*	.244	.171	.124
253761CC	HLMP-3401	Yellow	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.0 @ 10	5.7 @ 10	583	.29	.244	.171	.095
253796CC	HLMP-3850	Yellow	Clear	T1 3/4	.197/5	0.36	0.90	0.10	2.1 @ 20	140 @ 20	583	*	.244	.171	.098
253825CC	HLMP-4719	Yellow	Diffused	T1 3/4	.197/5	0.36	1.00	0.10	2.5 @ 2	2.1 @ 2	585	*	.226	.171	.096

*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 53

LED Tester

With the aid of this test module it is possible to carry out tests with all kinds of light-emitting diodes in order to check function, brightness, color and polarity. The LEDs could be tested optionally with following currents: 1mA, 2.5mA, 10mA, 20mA and 50mA.

- Operating voltage: 9V battery (recommend P/N 198791CC, pg. 169)
- LED connection: contact eyes
- Size: 2.3"L x 1.7"W x 0.9"H



Part No.	Product No.	Description	Price
313867CC	M087 NEW	LED tester	\$8.95

Practical Electronics Book
for Inventors

McGraw-Hill Publishing

Provides information needed for practical use in a format you can understand. With hand-drawn illustrations, this learn-as-you-go guide shows you what a particular device does, looks like and compares it with other similar devices. (604 pages, 2000)

- Size: 8.4" x 11"
- Weight: 2.8 lbs.



Part No.	Description	Price
174529CC	Practical Electronics Book for Inventors	\$39.95

Electronic Pocket Reference

Third Edition

McGraw-Hill Publishing

A pocket reference manual that provides definitions, passive component equations and color coding, parameters of standard semi-conductors, linear circuits, filters, power supply and regulation, electronic measurement and mathematical tables and formulas. (529 pages, 2000)

- Size: 4.0" x 6.0" • Weight: 0.9 lbs.



Part No.	Description	Price
174481CC	Electronics Pocket Reference	\$29.95

- Typical DC forward current 20mA

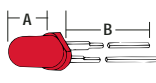
Ledtech is a QS9000 and
ISO-9000 Certified Company

Fig. 1

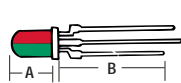


Fig. 2

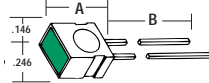


Fig. 3



152805CC

* Prepackaged: order in
increments of 10, 100 or 1000

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter (in./mm)	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Pricing			
							A*	B*					1	10	100	1000
156953CC	LT0373-41	1	Red Super Bright	Water clear	T1	.119/3	0.21	1.07	0.08	1.7 @ 20	600 @ 20	660	\$.24	\$.22	\$.17	\$.14
156945CC	LT0362-25-D61	2	Red/Green	White diff. bi-color tri-state	T1	.119/3	0.16	0.87	0.08	2.1 @ 20	2.7/13.3 @ 20	700/567	.29	.25	.19	.15
152750CC	LT0344R-81	1	Orange Red	Red clear	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	52.9 @ 10	635	*	.19	.16	.12
152784CC	LT0341R-41	1	Orange Red	Red diffused	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	15.5 @ 10	635	*	.17	.15	.12
152768CC	LT0324-41	1	Green	Green clear	T1	.119/3	0.20	0.89	0.10	2.1 @ 20	45 @ 20	567	*	.12	.09	.07
156929CC	LT0321-41-HE	1	Green	Green diffused	T1	.118/3	0.16	0.88	0.10	2.1 @ 20	32 @ 20	567	*	.18	.11	.10
156937CC	LT0331-41	1	Yellow	Yellow diffused	T1	.119/3	0.20	0.95	0.10	2.1 @ 20	11 @ 20	585	*	.14	.10	.07
136493CC	LT0333-41*	1	Yellow	Water clear	T1	.119/3	0.20	0.95	0.10	2.3 @ 20	38 @ 20	589	*	.19	.11	.09
215597CC	LT2K33-81-UC9T	1	Yellow	Water clear	T1 3/4	.197/5	0.31	0.89	0.10	2.2 @ 20	5000 @ 20	592	.59	.55	.49	.45
261622CC	LT1873-81-UR-P22	1	Red	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	1.9 @ 20	1200 @ 20	660	.21	.20	.19	.15
242843CC	LT1811-81	1	Red	Red diffused	T1 3/4	.197/5	0.30	0.88	0.10	2.1 @ 20	4.1 @ 20	700	*	.12	.10	.06
152805CC	LT1873-81-UR	1	Red Ultra Bright	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	1.9 @ 20	2000 @ 20	660	.29	.25	.19	.15
153138CC	LT2KJ3-UR-S14	1	Orange	Water clear	T1 3/4	.197/5	0.36	0.90	0.10	2.1 @ 20	2500 @ 20	621	.49	.44	.39	.35
302033CC	LT1814-81	1	Orange	Red diffused	T1 3/4	.197/5	0.34	0.88	0.10	2.1 @ 20	23.1 @ 20	635	*	.105	.071	.054
152856CC	LT1841R-81	1	Orange Red	Red diffused	T1 3/4	.197/5	0.34	0.89	0.10	2.1 @ 20	23 @ 20	635	*	.17	.15	.13
156961CC	LT1823-81-HE	1	Green	Water clear	T1 3/4	.197/5	0.34	0.87	0.10	2.1 @ 20	500 @ 20	567	*	.17	.15	.12
152821CC	LT1821-81-HE	1	Green	Green diffused	T1 3/4	.197/5	0.34	0.89	0.10	2.1 @ 20	96 @ 20	567	*	.16	.12	.09
175687CC	LT0524-81	1	Green	Green transparent	T1 3/4	.197/5	0.24	1.07	0.07	2.1 @ 20	44 @ 20	567	*	.16	.12	.09
152792CC	LT1833-81-M1	1	Ylw Super Bright	Water clear	T1 3/4	.197/5	0.34	0.89	0.10	2.1 @ 20	1040 @ 20	593	.26	.24	.19	.14
152830CC	LT1831-81-UR	1	Ylw Ultra Bright	Yellow diffused	T1 3/4	.197/5	0.34	0.89	0.10	2.0 @ 20	424 @ 20	593	.26	.24	.20	.14
34850CC	LT7341R-81†	3	Orange Red	Red diffused rectangular	3.5 x 6	—	0.27	0.85	0.07	2.0 @ 20	5.2 @ 20	635	.26	.22	.16	.15

White Diffused Backlight

151415CC	LT1F24-A2-S1	—	Green	Backlight, diffused	2.05"L x 0.78"H x 0.09"T	8-pin	4.2 @ 20	140 @ 20	567	\$2.95	\$2.65	\$2.39	\$1.95
302535CC	LT1F24-A2-S8	—	Green	Backlight, diffused	1.56"L x 0.98"H x 0.15"T	8-pin	4.2 @ 20	24.8 @ 20	567	2.95	2.65	2.39	1.95

*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, see below † For Mounting Hardware, see below

Infrared and Visible Light Emitters and Detectors

- Use for remote control and/or for fiber optics
- P/N 133946CC:
Can be used with cameras, see page 189
(peak emission wavelength: 940nm @ 20mA)



106526CC

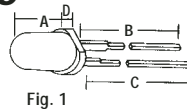


Fig. 1

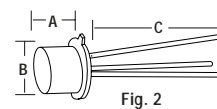
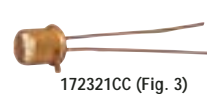


Fig. 2



172321CC (Fig. 3)

Part No.	Mfr. Cross Ref. No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	nm	mWatts	Pricing			
						A	B	C	D				1	10	100	1000
112150CC	LIR2043	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	5	\$.22	\$.18	\$.14	\$.12
133946CC	SLI-0308CP	1	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.3V @ 50mA	940	4	.62	.53	.40	.31
112176CC	LPT2023	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	—	940	—	.39	.29	.19	.15
106526CC	LVIR3333	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	8	.39	.29	.19	.15
112168CC	LPT3313	1	Infrared phototransistor	T1 3/4	0.200/5	0.31	1.05	1.10	0.04	—	940	—	.36	.30	.24	.20
120221CC	BPW77NA	2	Visible light phototransistor	TO-18	—	0.24	0.19	0.52	—	—	850	—	1.59	1.55	1.49	1.39
172321CC	OP133	3	Infrared emitter diode (GaAs)	TO-46	—	0.22	0.18	1.05	0.20	1.4V @ 100mA	935	5	2.15	1.95	1.69	1.59

LEDs Cabinet Kit and LED Mounting Hardware

LEDs & LED Mounting Hardware Kit

Includes:

- 20-drawer component cabinet (319599CC), 20 clear plastic drawers (319601CC), 20 clear dividers (319610CC), pg 131 and labels
- 10 ea. standard-output LEDs (34657CC, 114673CC, 114681CC, 34606CC, 175695CC, 34825CC, 34690CC, 11359CC, 34761CC, 34711CC, 104248CC, 104256CC, 34673CC), pg 53 and 136493CC, above
- 10 ea. HLMP series LEDs (11797CC), pg 52
- 10 ea. LED lens mount (14277CC), right
- 100 ea. LEDs (94529CC, 135597CC), pg 51
- 100 ea. LED mounting hardware (95513CC, 23077CC), right

SAVE \$26

Part No.	Description	Wt. (lbs.)	1	10
84996CC	560 pcs. kit	5.0	\$66.95	\$60.25

LED Mounting Hardware

- P/N 95521CC: for use with P/N 94545CC and 34850CC, pg 51



95513CC



23077CC



95521CC

Prepackaged: order in
increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	Description	Color	Mounting Hole Dia.	Panel Thickness	Pricing		
						10	100	1000
95513CC	LMH100	T1 snap-in	Black	.185"	Up to .070"	\$0.08	\$0.07	\$0.04
23077CC	LMH200	T1 3/4 ring & clip	Black	.257"	Up to .125"	.15	.135	.12
95521CC	LMH250	Rect. snap-in	Black	.306" x .202"	Up to .092"	.20	.17	127



T1 3/4 Ciplite® LED Lens Mount

- Requires no assembly tools, just snap in
- Material: lens – polycarbonate; spacer – nylon
- Increases viewing angle to 180°
- Helps guard against electrostatic discharge up to 16kV



29612CC



Fig. 1 (5mm)

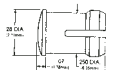


Fig. 2 (5mm)

Part No.	Product No.	Description	Color	Fig.	Mounting Hole Dia.	Panel Thickness	Pricing			
							1	10	100	1000
14277CC	CLF280CTP	T1 3/4	Clear	1	.25"	.063" – .125"	\$.25	\$.19	\$.16	\$.14
29612CC	CLF280RTP	T1 3/4	Red	1	.25"	.063" – .125"	.25	.19	.16	.14
124927CC	CLB300CTP	T1 3/4	Clear	2	.25"	.031" – .25"	.25	.19	.16	.14

LED Displays

The general advantages of LED displays compared to incandescent types include:

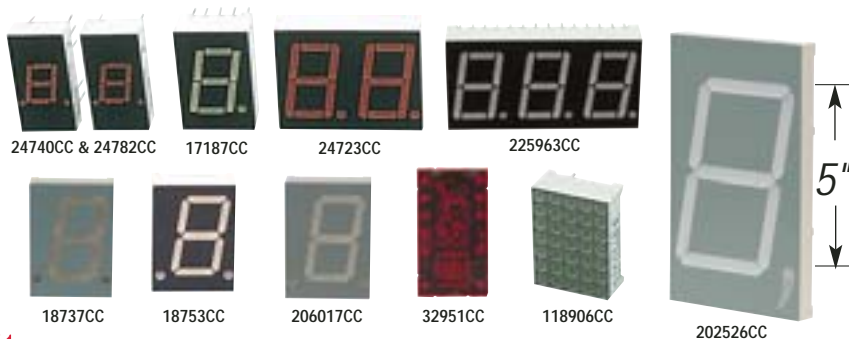
- Lower power consumption
- Longer lifetime (averaged more than 300,000 hours)
- Compact size suitable for instrumentation and graphic representations

Soldering:

- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W



Quantity
SAVE



7-Segment Displays

Part No.	Mfr. Cross Reference No.	Character Height	Illuminated Color	Buss Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
										1	10	100	1000
24731CC	LSD3021-11	.300"	Red	CA	11	1.9 @ 20	0.3 @ 20	697	RHDP	\$.87	\$.70	\$.50	\$.47
308187CC	LC3041R-RRRN	.300"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	LHDP/RHDP	.73	.64	.59	.56
24740CC	LSD3221-11	.300"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	.79	.72	.64	.58
151976CC	LTS312AY	.300"	Yellow	CA	11	2.8 @ 20	2.0 @ 10	585	LHDP	.89	.71	.67	.60
24782CC	LSD3211-11	.300"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	.89	.75	.65	.49
308179CC	LC3951-11EWAK	.390"	Red	CC	10	2.1 @ 20	0.6 @ 10	700	RHDP	.79	.73	.68	.67
17187CC	LSD5051-11	.500"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.80	.72	.65
17208CC	LSD5061-11	.500"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.75	.65	.49
104213CC	LSD5124-10	.560"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.89	.80	.71	.55
308224CC	LM5643R-11RRRN	.560"	Orange	3-digit CC	11	2.1 @ 20	3.3 @ 10	635	RHDP	2.25	2.05	1.79	1.69
308232CC	LM5644R-11RRRN	.560"	Orange	4-digit CC	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.75	2.45	2.19	2.09
199531CC	LSD5111-11	.560"	Red	CC	10	2.1 @ 20	0.8 @ 20	697	RHDP	.99	.89	.71	.53
24715CC	LDD5121-20	.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24723CC	LDD5111-11	.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
200379CC	LB602VAGI	.560"	Red	2-digit CA	18	2.0 @ 10	16 @ 10	650	RHDP	1.25	1.12	.90	.67
24694CC	LDD5124	.560"	Orange Red	2-digit CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.39	1.25	.99	.75
24707CC	LDD5114-20	.560"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.35	1.15	.99	.89
200539CC	ELD556YWA	.560"	Yellow	2-digit CA	18	2.0 @ 20	1.9 @ 10	590	RHDP	1.25	1.12	.90	.67
308216CC	LA5622-11EWRN	.560"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	.87	.65	.56	.53
225963CC	KW3-562A2B	.560"	Green	3-digit CA	28	2.2 @ 20	15 @ 20	568	RHDP	2.39	2.15	1.95	1.25
199582CC	LC56311	.560"	Yellow	CC	8	2.1 @ 20	5.2 @ 20	589	RHDP	1.49	1.25	1.09	.79
18737CC	LSD816-11	.800"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.49	1.35	1.19	.99
308259CC	LA8071-11-MIEWRW	.800"	Red	CA	13	1.7 @ 20	8.9 @ 10	660	LHDP/RHDP	1.39	1.25	1.13	1.07
18753CC	LSD8151-10	.800"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.49	1.35	1.19	.99
206017CC	SC08-11HWA	.800"	Red	CC	13	2.0 @ 20	.36 @ 10	700	RHDP	1.49	1.35	1.19	.94
176599CC	C8021-1	.800"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP	.49	.44	.35	.26
308161CC	LA2541-24EWRN	1.0"	Orange	CA	10	4.2 @ 20	5.2 @ 10	635	RHDP	2.89	2.65	2.29	2.15
97172CC	LSD10061-10	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.39	1.25	1.12	.99
97199CC	LSD23265-10	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	5.75	5.19	4.69	4.19
97201CC	LSD23255-10	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.25	2.95
308208CC	LA2321-42EWRN	2.24"	Green	CA	10	4.2 @ 40	2.7 @ 10	567	RHDP	8.45	8.15	6.59	5.25
202518CC	LSD30165-20	3.0"	Orange Red	CA	10	8 @ 20	4.5 @ 10	635	RHDP	7.39	6.99	6.65	6.29
202542CC	LSD30155-20	3.0"	Orange Red	CC	10	8 @ 20	4.5 @ 10	635	RHDP	5.49	4.95	4.45	4.05
105591CC	LSD40054-20†	4.0"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	9.49	8.29	7.49	6.49
202500CC	LSD40064-20	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 10	635	RHDP	10.49	9.49	8.59	7.79
202526CC	LSD50065-20	5.0"	Red	CA	10	17 @ 20	45 @ 10	660	RHDP	34.99	27.89	25.29	22.79
202534CC	LSD50055-20	5.0"	Red	CC	10	17 @ 20	45 @ 10	660	RHDP	17.95	14.35	12.95	11.65

† 5 diodes per segment

Dot Matrix Displays

Part No.	Mfr. Cross Reference No.	Jameco Socket Number	Character Height	Illuminated Color	Buss Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
											1	10	100	1000
173833CC	HP5082-7300	—	.290"	Red	4x7 Numeric	8	5.0 @ 170	.03 @ 20	660	RHDP	\$4.95	\$4.46	\$3.56	\$2.67
32951CC	TIL311	37161CC	.300"	Red	4x7 Hex character	11	5.0 @ 5	0.1 @ 5	660	—	16.95	14.35	12.92	11.62
308152CC	LA5041R-11BRRRN	—	0.500"	Orange	Alphanumeric	18	2.1 @ 20	7.4 @ 10	635	RHDP	1.69	1.49	.89	.85
118906CC	LTP747R	37161CC	.680"	Orange Red	5 x 7 AC/CR	12	1.7 @ 20	0.2 @ 20	655	—	1.95	1.79	1.45	1.05
218843CC	CSM57041T-11	—	.700"	Red	5 x 7 CC/CR	12	1.8 @ 20	8 @ 20	660	—	1.95	1.55	1.17	.82
308144CC	LJ5763-M1FEWRN	—	1.10"	Red/green	5 x 7 CC/AR	20	1.7/2.1 @ 20	10.8/20.0 @ 10	660/567	—	4.05	3.45	3.25	3.09
206560CC	LTP2157AG	—	2.0"	Green	5 x 7 CC/AR	14	3.7 @ 80	4.8 @ 80	565	—	\$4.49 2.59	2.35	2.13	1.94
183265CC	LMD5821ASR-20	—	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	—	4.95	4.49	3.95	3.49
308110CC	LJ4071-22 EWRN	—	3.60"	Red	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	—	15.45	15.09	14.75	14.25
308128CC	LJ4071-22 BRN	—	3.60"	Red	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	—	15.45	15.09	14.76	14.25
308136CC	LJ4071-22 BWRN	—	3.60"	Red	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	—	20.65	16.49	14.75	14.25

* CA-Common Anode/CC-Common Cathode/AC-Anode Column/CR-Cathode Row/AR-Anode Row

LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point

Incandescent Panel Mount Lamps

- 215781CC/215790CC/215773CC: wire length - 3.9" (100mm)
- 215749CC/215757CC/215765CC: wire length - 4.9" (125mm)
- 215714CC/215722CC/215731CC: solder terminals - 0.196" (5mm)



Fig. 1



Fig. 2



Fig. 3

Part No.	Mfr. Cross Ref. No.	Fig.	Voltage	Color	Mounting Hole	Pricing		
						1	10	100
215773CC	R9-46B-W100-12V-R	1	12	Red	1/2" (13mm)	\$1.79	\$1.59	\$1.35
215781CC	R9-46B-W100-12V-Y	1	12	Yellow	1/2" (13mm)	1.79	1.59	1.35
215790CC	R9-46B-W100-12V-G	1	12	Green	1/2" (13mm)	1.79	1.59	1.35
215749CC	R9-55B-W130-12V-R	2	12	Red	9/32" (7mm)	1.79	1.59	1.35
215757CC	R9-55B-W130-12V-Y	2	12	Yellow	9/32" (7mm)	1.79	1.59	1.35
215765CC	R9-55B-W130-12V-G	2	12	Green	9/32" (7mm)	1.79	1.59	1.35
215714CC	R9-71B-05-12V-R	3	12	Red	5/8" (16mm)	1.79	1.59	1.35
215722CC	R9-71B-05-12V-Y	3	12	Yellow	5/8" (16mm)	1.79	1.59	1.35
215731CC	R9-71B-05-12V-G	3	12	Green	5/8" (16mm)	1.79	1.59	1.35

Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

215802CC: Red

215811CC: Yellow

215829CC: Green

215802CC



Part No.	Mfr. Cross Ref. No.	1	10	100
215802CC	R9-71N-05-120V-R ..	\$1.79	\$1.59	\$1.35
215811CC	R9-71N-05-120V-Y	1.79	1.59	1.35
215829CC	R9-71N-05-120V-G	1.79	1.59	1.35

30-Day Money-Back Guarantee

If you're not satisfied,
we'll take it back!
Details on page 246.

Lamps and LED Accessories



T1 & T1 3/4 Climite® Lens and Conxrite® Cable Assembly

Climite® Lens: • Material: (lens) polycarbonate: (ring) polypropylene (UL Listed)
• Mounts through front panel in 0.171" hole diameter, panel thickness: 1/32" to 3/32"

Conxrite® Cable Assembly: • Terminals: phosphor bronze, tin-plated
• Connector socket and ring/header connector: thermoplastic (UL Listed)
• Wire: 22AWG, 7 strand copper, insulated



Part No.	Product No.	Size	Description	1	10	100	1000
143183CC	SMC170CTP	T1	Clear Climite® lens	\$.22	\$.20	\$.15	\$.13
143132CC	CMC321CTP	T1 3/4	Clear Climite® lens	.25	.22	.19	.16
143087CC	BE2108	T1	8.5" cable assembly	1.25	1.13	.93	.86
143036CC	CE2108	T1 3/4	8.5" cable assembly	1.29	1.25	1.19	1.15
143052CC	CE2118	T1 3/4	18" cable assembly	1.55	1.39	1.20	1.09

LED Panel-Mount Indicators

- Easy panel installation
- Panel/status/instrument indicators

141111CC/141129CC/141137CC: Chrome housing

236427CC/236419CC: Black nylon housing



Part No.	Mfr. Cross Ref. No.	LED Size	Color	Dimensions (in.)			Mounting Hole	Vf @ If	Pricing			
				L	A	B			1	10	100	1000
236427CC	5102H5-12V	T1 3/4	Green	.53	6.0	6.0	.25"	12V @ 15mA	\$1.25	\$1.12	\$.90	\$.68
236419CC	5102H1-12V	T1 3/4	Red	.53	6.0	6.0	.25"	12V @ 15mA	1.19	1.07	.86	.64
141111CC	L922SRD	T1	Red	.56	.34	.25	.23"	12V @ 20mA	.79	.60	.52	.45
141129CC	L913RD	T1	Red	.56	.39	.32	.24"	12V @ 20mA	1.09	.81	.69	.61
141137CC	L917RD	T1 3/4	Red	.70	.55	.47	.31"	12V @ 20mA	.89	.79	.71	.55



Cluster-Type T1 3/4 LED Lamps

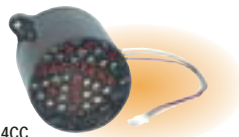
- Cluster-type red/green T1 3/4 LEDs
- 660nm for red/570nm for green
- Lens: water clear • Common anode • 3 lead wires

150914CC: 50 Cluster (30 green/20 red)

150922CC: 14 Cluster (8 green/6 red)

SALE

150914CC



Part No.	Product No.	Vf @ If	mcd @ mA	Lead Wire	Mounting Hole Dia.	Dimensions (Dia. x L)	Pricing		
150914CC	LCR5250A-79	20.5V @ 40mA	12,000 @ 40	16"	M4	2.07 x 1.98	\$13.19	\$11.99	\$11.35
150922CC	LCR2614B-79	10V @ 20mA	1950 @ 20	7"	M3	1.02 x 1.51	4.95	4.49	3.95

Visit www.Jameco.com for more products

Miniature Fluorescent Lamps

Add fluorescent color to your projects, computer case, car and other displays with these economical lights. Now you can easily and affordably mount these 4" light tubes to add cool cold-cathode effects and give your display a richer, trick look and feel. Optional power supply below converts 12VDC input into 180V - 800V output needed by lights.



239610CC

239636CC

velleman

Part No.	Prod. No.	Description	1	10	25
239610CC	FLW1	White light	\$9.95	\$8.95	\$7.95
239572CC	FLB1	Blue light	9.95	8.95	7.95
239581CC	FLBL1	Black light	9.95	8.95	7.95
239628CC	FLY1	Yellow light	9.95	8.95	7.95
239601CC	FLP1	Pink light	9.95	8.95	7.95
239599CC	FLG1	Green light	9.95	8.95	7.95
239636CC	FLPS1	12VDC PS	9.95	8.95	7.95

Electroluminescence Wires



Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap these fluorescent wires around any objects such as musical instruments, models, science projects, and presentation boards. Super charge your projects with brilliant colors.

- Powered by 2 AA batteries
- Length: 4.5'

velleman

Part No.	Product No.	Color	1	10	25
263484CC	NWRB15	Blue	\$21.95	\$20.95	\$19.95
263505CC	NWRG15	Green	21.95	20.95	19.95
263492CC	NWRR15	Red	21.95	20.95	19.95

Incandescent and Neon Lamps

Color Code Legend
New Sale Qty. Save



Incandescent Lamps

SALE

* Prepackaged: order in increments of 5, 10 or 100

Part No.	Mfr. Cross Ref. No.	Fig.	Description	Volts	MSCP	Pricing			
						1	5	10	100
209381CC	13	1	G3 1/2 miniature screw	3.7	.98	\$.79	\$.75	\$.69	\$.59
209390CC	14	1	G3 1/2 miniature screw	2.47	.50	.55	.52	.49	.45
209402CC	40	2	T3 1/4 miniature screw	6.3	.50	*	.29	.19	.15
209411CC	44	3	T3 1/4 miniature bayonet	6.3	.90	*	.22	.17	.13
209429CC	46	2	T3 1/4 miniature screw	6.3	.90	*	.37	.32	.27
209437CC	47	3	T3 1/4 miniature bayonet	6.3	.50	*	.22	.17	.13
209445CC	50	1	G3 1/2 miniature bayonet	7.5	1.0	.59	.54	.49	.44
210403CC	51	4	G3 1/2 miniature bayonet	7.5	1.0	*	.35	.29	.24
209453CC	53	4	G3 1/2 miniature bayonet	14.4	1.0	.49	.44	.39	.29
210411CC	55	5	G4 1/2 miniature bayonet	7.0	2.0	*	.20	.14	.09
209461CC	73	6	T1 3/4 wedge	14.0	.30	*	.24	.19	.16
209470CC	85	6	T1 3/4 wedge	28.0	.30	*	.24	.21	.17
209488CC	86	6	T1 3/4 wedge	6.3	.40	*	.24	.19	.15
209496CC	93	7	S-8 snl contact bayonet	12.8	15.0	.59	.54	.49	.44
209509CC	161	8	T3 1/4 wedge	14.0	1.0	*	.25	.19	.15
209517CC	168	8	T3 1/4 wedge	14.0	3.0	*	.24	.19	.14
209525CC	194	8	T3 1/4 wedge	14.0	2.0	*	.24	.19	.14
209533CC	222	9	GTL-3 miniature screw	2.25	—	*	.29	.24	.22
209541CC	259	8	T3 1/4 wedge	6.3	.65	*	.24	.19	.16
209550CC	313	3	T3 1/4 miniature bayonet	28.0	3.5	*	.25	.19	.16
209568CC	327	10	T1 3/4 midget flange	28.0	.34	*	.29	.24	.22
209576CC	328	10	T1 3/4 midget flange	6.0	.60	.49	.44	.39	.34
209584CC	330	10	T1 3/4 midget flange	14.0	.50	*	.39	.34	.29
209592CC	334	11	T1 3/4 midget groove	28.0	.34	*	.39	.35	.29
209606CC	335	15	T1 3/4 midget screw	28.0	.34	.49	.44	.39	.32
209613CC	344	10	T1 3/4 midget flange	10.0	.002	.99	.89	.79	.69
209621CC	345	10	T1 3/4 midget flange	6.0	.03	.59	.49	.45	.35
209630CC	370	10	T1 3/4 midget flange	18.0	.15	.89	.79	.69	.59
209648CC	376	10	T1 3/4 midget flange	28.0	.34	.59	.49	.39	.29
209656CC	379	11	T1 3/4 midget groove	6.3	.40	.69	.59	.49	.39
209664CC	381	10	T1 3/4 midget flange	6.3	.40	.49	.45	.39	.29
209672CC	382	10	T1 3/4 midget flange	14.0	.30	.49	.45	.39	.29
209681CC	385	10	T1 3/4 midget flange	28.0	.15	.49	.45	.38	.29
209699CC	386	11	T1 3/4 midget groove	14.0	.30	*	.39	.33	.27
209701CC	387	10	T1 3/4 midget flange	28.0	.30	*	.37	.25	.23
209710CC	388	11	T1 3/4 midget groove	28.0	.30	*	.35	.29	.25
209728CC	394	10	T1 3/4 midget flange	12.0	.12	.49	.45	.39	.32
209736CC	656	8	T3 1/4 wedge	28.0	.62	*	.24	.19	.15
209752CC	657	8	T3 1/4 wedge	28.0	.62	*	.25	.20	.15
202100CC	683	12	T1 wire terminal	5.0	.05	.49	.39	.35	.28
209761CC	685	13	T1 sub midget flange	5.0	.05	.99	.89	.79	.69
209779CC	715	12	T1 wire terminal	5.0	.15	.89	.79	.69	.59
209787CC	755	3	T3 1/4 miniature bayonet	6.3	.33	.49	.44	.37	.30
209795CC	756	3	T3 1/4 miniature bayonet	14.0	.31	.59	.54	.49	.39
209808CC	757	3	T3 1/4 miniature bayonet	28.0	.62	*	.35	.32	.27
210438CC	1156	7	S-8 snl contact bayonet	12.8	32	.49	.45	.39	.35
210446CC	1157	14	S-8 double contact index	12.8/14	32/3	*	.39	.35	.29
209816CC	1450	4	G3 1/2 miniature bayonet	24.0	.23	.99	.89	.79	.69
209824CC	1813	3	T3 1/4 miniature bayonet	14.4	.86	*	.29	.24	.22
209832CC	1815	3	T3 1/4 miniature bayonet	14.0	1.4	.49	.39	.29	.25
209841CC	1816	3	T3 1/4 miniature bayonet	13.0	3.0	*	.29	.24	.19
209859CC	1818	3	T3 1/4 miniature bayonet	24.0	3.3	.99	.89	.79	.69
209867CC	1819	3	T3 1/4 miniature bayonet	28.0	.34	*	.25	.19	.15
209875CC	1820	3	T3 1/4 miniature bayonet	28.0	1.6	.49	.39	.34	.24
209883CC	1821	15	T3 1/4 screw	28.0	3.4	.99	.89	.79	.69
209891CC	1822	3	T3 1/4 miniature bayonet	36.0	2.1	.49	.39	.29	.25
209904CC	1829	3	T3 1/4 miniature bayonet	28.0	1.0	*	.29	.24	.19

Incandescent Lamps (Continued)

SALE

* Prepackaged: order in increments of 5, 10 or 100

Part No.	Mfr. Cross Ref. No.	Fig.	Description	Volts	MSCP	Pricing			
						1	5	10	100
209912CC	1835	3	T3 1/4 miniature bayonet	55.0	1.1	\$.49	\$.39	\$.29	\$.24
209921CC	1847	3	T3 1/4 miniature bayonet	6.3	.38	.49	.39	.29	.24
209939CC	1850	3	T3 1/4 miniature bayonet	5.0	.25	.49	.39	.29	.24
209947CC	1864	3	T3 1/4 miniature bayonet	28.0	3.0	.49	.39	.29	.24
209955CC	1866	3	T3 1/4 miniature bayonet	6.3	.65	*	.39	.29	.19
209963CC	1891	3	T3 1/4 miniature bayonet	14.0	2.0	.49	.39	.29	.19
209971CC	1893	3	T3 1/4 miniature bayonet	14.0	2.0	.49	.39	.29	.24
141073CC	2182	16	T1 3/4 wire terminal	14.0	.30	.49	.44	.39	.34
141065CC	2200	16	T1 3/4 wire terminal	5.0	.05	.59	.54	.49	.44
141057CC	6833	17	T 3/4 wire terminal	5.0	.05	1.29	1.15	.99	.89
209998CC	7219	12	T1 wire terminal	12.0	.15	*	.29	.25	.19
210008CC	7328	18	T1 3/4 bi-pin	6.0	.60	.89	.79	.69	.59
210016CC	7335	10	T1 3/4 midget flange	5.0	.15	.69	.59	.49	.39
210024CC	7341	10	T1 3/4 midget flange	28.0	.65	.79	.69	.59	.49
141006CC	7361	18	T1 3/4 bi-pin	5.0	.05	.99	.89	.79	.69
210032CC	7382	18	T1 3/4 bi-pin	14.0	.30	.49	.39	.35	.29
210041CC	7387	18	T1 3/4 bi-pin	28.0	.30	.49	.45	.39	.29
210059CC	7632	19	T1 1/4 bi-pin	28.0	.32	1.29	.99	.89	.79
210067CC	7683	20	T1 bi-pin	5.0	.05	1.19	.99	.89	.79
210075CC	7715	20	T1 bi-pin	5.0	.15	1.19	.99	.89	.79
210083CC	7839	20	T1 bi-pin	28.0	.15	1.19	.99	.89	.79
210227CC	6PSB	21	T2 tel. slide base type 5	6.0	550	.79	.69	.59	.49
309673CC	6S6	25	S6 candelabra NEW	120	—	.84	.80	.76	.72
210112CC	12ESB	21	T2 tel. slide base type 5	12.0	650	.69	.59	.55	.49
210121CC	12PSB	21	T2 tel. slide base type 5	12.0	2000	.69	.65	.59	.49
309681CC	20T6 1/2	24	T6 1/2 20W intermediate	145	—	1.69	1.59	1.55	1.45
210139CC	24ESB	21	T2 tel. slide base type 5	24.0	850	.69	.65	.59	.49
210147CC	24MB	22	T2 miniature bayonet	24.0	3000	.99	.89	.79	.69
210155CC	24PSB	21	T2 tel. slide base type 5	24.0	3000	.59	.55	.49	.45
210163CC	28ESB	21	T2 tel. slide base type 5	28.0	1500	.79	.69	.59	.49
210171CC	28MB	22	T2 miniature bayonet	28.0	1600	.89	.79	.69	.59
210180CC	28PSB	21	T2 tel. slide base type 5	28.0	1600	.69	.59	.49	.45
210198CC	48PSB	21	T2 tel. slide base type 5	48.0	1800	.89	.79	.69	.59
210201CC	60MB	22	T2 miniature bayonet	60.0	2200	.89	.79	.69	.59
210219CC	60PSB	21	T2 tel. slide base type 5	60.0	2200	.69	.59	.55	.49
210091CC	120MB	22	T2 miniature bayonet	120	1200	.69	.65	.59	.55
210104CC	120PSB	21	T2 tel. slide base type 5	120	1200	.69	.65	.59	.55
210340CC	PR2	23	B3 1/2 snl cont. mini flange	2.38	.80	*	.24	.20	.15
210358CC	PR3	23	B3 1/2 snl cont. mini flange	3.57	1.5	*	.24	.20	.15
210366CC	PR4	23	B3 1/2 snl cont. mini flange	2.33	.40	*	.24	.20	.15
210374CC	PR6	23	B3 1/2 snl cont. mini flange	2.47	.45	*	.24	.20	.15



Neon Lamps

* Prepackaged: order in increments of 5, 10 or 100

Part No.	Mfr. Cross Ref. No.	Fig.	Description	Voltage	Pricing			
					1	5	10	100
27351CC	A1A (NE-2)	1	Wire terminal	65-120	*	\$.35	\$.31	\$.26
210243CC	A1B	1	Wire terminal	65-120	*	.28	.25	.24
210251CC	A1C	1	Wire terminal	65-120	*	.39	.29	.25
210260CC	A9A (NE-2E)	1	Wire terminal	65-120	*	.29	.25	.19
210278CC	B1A (NE-51)	2	T3 1/4 miniature bayonet	65-120	.79	.75	.69	.59
210286CC	B2A (NE-51H)	2	T3 1/4 miniature bayonet	65-120	.69	.59	.49	.39
210294CC	B7A (NE-45)	3	T4 1/2 candelabra screw	65-120	3.99	3.49	2.99	2.49
210307CC	B9A (NE-48)	4	T4 1/2 D.C. bayonet	65-120	2.99	2.49	1.99	1.79
210315CC	C2A (NE-2H)	1	Wire terminal	65-120	*	.39	.35	.26



193009CC Tape and Reel

193009CC

Quantity
SAVE

Aluminum Electrolytic Capacitors

Operating temperature range	-40°C to +85°C
Leakage Current (20°C) after 2 minutes	≤ .01CV or 3µA

* Prepackaged: order in increments of 10, 100 or 500

Part No.	Mfr. Cross Ref No.†	Value (µF)	Voltage	Dia. (mm)	Pricing			
					1	10	100	500
193228CC	SE1/50	1	50	4.0	*	\$.15	\$.14	\$.11
193236CC	SE2.2/50	2.2	50	4.0	*	.15	.12	.09
193244CC	SE3.3/50	3.3	50	4.0	*	.15	.128	.096
193076CC	SE427/25	4.7	25	4.0	*	.16	.13	.096
193252CC	SE4.7/50	4.7	50	5.0	*	.17	.14	.105
192997CC	SE10/16	10	16	4.0	*	.14	.12	.11
193084CC	SE10/25	10	25	5.0	*	.16	.13	.096
193164CC	SE10/35	10	35	5.0	*	.18	.153	.115
193261CC	SE10/50	10	50	6.3	*	.23	.168	.146
192891CC	SE22/6.3	22	6.3	4.0	*	.13	.10	.082
193009CC	SE22/16	22	16	5.0	*	.14	.119	.089
193092CC	SE22/25	22	25	6.3	*	.18	.153	.115
193172CC	SE22/35	22	35	6.3	*	.17	.14	.10
193279CC	SE22/50	22	50	6.3	*	.26	.221	.165
193017CC	SE33/16	33	16	5.0	*	.17	.14	.10
193105CC	SE33/25	33	25	6.3	*	.22	.19	.14
193181CC	SE33/35	33	35	8.0	.29	.25	.23	.20
193287CC	SE33/50	33	50	8.0	.35	.32	.28	.25
193025CC	SE47/16	47	16	6.3	*	.17	.14	.115
193113CC	SE47/25	47	25	6.3	.39	.24	.21	.18
193199CC	SE47/35	47	35	6.3	*	.24	.16	.13

† Cross Reference: Panasonic: VS Series



Side View



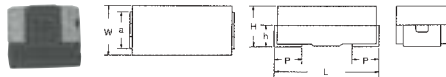
Bottom View

SALE

* Prepackaged: order in increments of 10, 100 or 500

Part No.	Mfr. Cross Ref No.†	Value (µF)	Voltage	Dia. (mm)	Pricing			
					1	10	100	500
193295CC	SE47/50	47	50	10.0	\$.35	\$.29	\$.25	\$.23
192903CC	SE100/6.3	100	6.3	6.3	*	.18	.15	.11
193033CC	SE100/16	100	16	8.0	*	.26	.23	.21
193121CC	SE100/25	100	25	8.0	.39	.35	.28	.21
193201CC	SE100/35	100	35	10.0	.39	.35	.32	.28
193308CC	SE100/50	100	50	10.0	.48	.43	.39	.33
192962CC	SE220/10	220	10	8.0	.31	.29	.27	.23
193041CC	SE220/16	220	16	8.0	.52	.47	.42	.35
193130CC	SE220/25	220	25	10.0	.63	.57	.51	.45
193210CC	SE220/35	220	35	8.0	.55	.50	.40	.30
193316CC	SE220/50	220	50	10.0	.61	.55	.44	.33
193050CC	SE330/16	330	16	10.0	.49	.36	.31	.26
193148CC	SE330/25	330	25	8.0	.49	.44	.35	.26
192920CC	SE470/6.3	470	6.3	8.0	.44	.39	.31	.27
192971CC	SE470/10	470	10	10.0	.45	.40	.32	.28
193068CC	SE470/16	470	16	10.0	.52	.45	.37	.19
193156CC	SE470/25	470	25	10.0	.61	.54	.48	.43
192938CC	SE1000/6.3	1000	6.3	10.0	.51	.46	.36	.34
192989CC	SE1000/10	1000	10	10.0	.52	.47	.37	.35
192946CC	SE1500/6.3	1500	6.3	10.0	.59	.49	.44	.37

Resin Molded Chip Tantalum Electrolytic Capacitors (±20%)



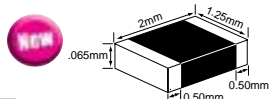
Case Size (Dimensions in mm)

EIA CASE CODE	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
A (3216)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528)	3.5	2.8	1.9	0.8	2.0	0.7
C (6032)	6.0	3.2	2.5	1.3	2.0	1.0
D (7343)	7.3	4.3	2.9	1.3	2.4	1.0

JAMECO ValuePro Part No.	Capacitance	Case Size	10 pc. Incremnt	Pricing		
				100	500	1000
87021CC	10µF	B	\$.258	\$.228	\$.181	\$.151
87119CC	100µF	D	.92	.88	.83	.80
Other Manufacturers — Limited Great Deals						
87020CC	10µF	B	\$.232	\$.205	\$.163	\$.136
87118CC	100µF	D	.83	.79	.75	.72

JAMECO ValuePro Part No.	Capacitance	Case Size	10 pc. Incremnt	Pricing		
				100	500	1000
86933CC	1µF	A	\$.19	\$.15	\$.11	\$.105
87039CC	10µF	C	.32	.29	.25	.23
87101CC	47µF	D	1.01	.90	.80	.70
Other Manufacturers — Limited Great Deals						
86932CC	1µF	A	\$.17	\$.135	\$.10	\$.095
87038CC	10µF	C	.29	.26	.23	.21
87100CC	47µF	D	.91	.86	.81	.72

See page 131 for
Plastic Fliptop Case
for SMDs.



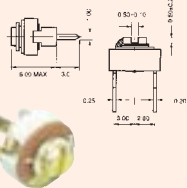
X7R SERIES (±10%)

JAMECO ValuePro Part No.	Capacitance	Volt.	100 pc. Incremnt	Pricing		
				500	1000	3000
87312CC	.01µF	50	\$.07	\$.04	\$.03	\$.016
87371CC	.1µF	25	.09	.06	.053	.048
Other Manufacturers — Limited Great Deals						
87311CC	.01µF	50	\$.063	\$.036	\$.027	\$.014
87370CC	.1µF	25	.08	.054	.048	.043

JAMECO ValuePro Part No.	Capacitance	Volt.	100 pc. Incremnt	Pricing		
				500	1000	3000
87330CC	.01µF	50	\$.078	\$.044	\$.033	\$.025
87389CC	.1µF	50	.13	.05	.045	.044
87397CC	.22µF	25	.25	.22	.19	.15
Other Manufacturers — Limited Great Deals						
87329CC	.01µF	50	\$.07	\$.04	\$.03	\$.022
87388CC	.1µF	50	.117	.045	.04	.038
87396CC	.22µF	25	.225	.20	.17	.135

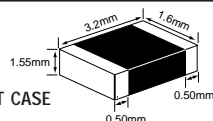
5mm Ceramic Trimmer Capacitor

- Working voltage: 200VDC
- Withstand voltage: 400VDC
- Turning torque: 35-200 g-cm
- Operating temperature range: -30°C~+85°C
- Insulation resistance: >10MΩ min. @ 250VDC



Part No.	Capacitance Range (pF)	Q Factor @ 1MHz	Color Codes	Pricing			
				1	10	100	1000
136979CC	9.0-50.0	> 200	Green	\$.89	\$.79	\$.69	\$.59

Multilayer Ceramic Chip Capacitors



Z5U SERIES (±20%)

JAMECO ValuePro Part No.	Capacitance	Voltage	100 pc. Incremnt	Pricing		
				500	1000	5000
87178CC	.1µF	50	\$.037	\$.029	\$.025	\$.019
Other Manufacturers — Limited Great Deals						
87177CC	.1µF	50	\$.033	\$.026	\$.022	\$.017

JAMECO ValuePro Part No.	Capacitance	Voltage	100 pc. Incremnt	Pricing		
				500	1000	5000
87186CC	.1µF	50	\$.08	\$.069	\$.049	\$.039
87207CC	.22µF	50	.09	.059	.049	.039
87223CC	.47µF	50	.25	.22	.19	.17
Other Manufacturers — Limited Great Deals						
87185CC	.1µF	50	\$.072	\$.062	\$.044	\$.035
87206CC	.22µF	50	.081	.053	.044	.035
87222CC	.47µF	50	.225	.198	.171	.153

8mm .315" Ceramic Trimmer Capacitors Thru Hole

- Working voltage: 250VDC
- Withstand voltage: 550VDC
- Turning torque: 40-200 g-cm
- Operating temperature range: -55°C~+85°C
- Insulation resistance: 10MΩ min. @ 250VDC



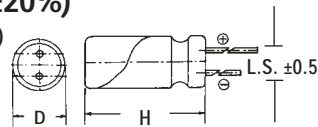
Part No.	Capacitance Range (pF)	Q Factor @ 1MHz	Color Codes	Pricing			
				1	10	100	1000
134819CC	3.5-13.0	> 300	Ivory	\$.69	\$.53	\$.53	\$.446
32838CC	4.0-34.0	> 300	Yellow	.90	.77	.62	.59
32854CC	6.0-70.0	> 200	Nil	.92	.78	.72	.68
94449CC	8.5-100	> 200	Purple	1.05	.93	.81	.77
94465CC	8.5-120	> 200	Nil	.99	.79	.65	.59
Other Manufacturers — Limited Great Deals							
134818CC	3.5-13.0	> 300	Ivory	\$.62	\$.48	\$.47	\$.40



Aluminum Radial-Lead Electrolytic Capacitors (±20%)

General purpose low voltage 85°C (A); HT Type 105°C (B)

Operating temperature range	-40°C to +85°C (A); -40°C to +105°C (B)
Leakage Current (20°C)	After 1 min. 0.03CV or 4µA, whichever is greater
	After 2 min. 0.01CV or 3µA, whichever is greater



† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

SALE

* Prepackaged: order in increments of 10, 100 or 500

* Prepackaged: order in increments of 10, 100 or 500

Part No.	Mfr. Cross Ref. No.†	Op. Temp	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
						1	10	100	500
158481CC	R0.47B100	B	0.47	100V	5 x 11 x 2	*	\$.05	\$.04	\$.03
94160CC	5R1/50	A	1	50V	4 x 5 x 1.5	*	.12	.08	.05
29832CC	R1/50 NEW	A	1	50V	5 x 11 x 2	*	.063	.053	.042
158490CC	R1B100	B	1	100V	5 x 11 x 2	*	.06	.05	.04
93730CC	R2.2/50 NEW	A	2.2	50V	5 x 11 x 2	*	.038	.033	.026
199021CC	R2.2J/100	A	2.2	100V	5 x 11 x 2	*	.035	.03	.025
135184CC	R3.3/50 NEW	A	3.3	50V	5 x 11 x 2	*	.05	.04	.025
31001CC	R4.7/50 NEW	A	4.7	50V	6 x 11 x 2	*	.042	.037	.029
198838CC	R10J/16	A	10	16V	5 x 11 x 2	*	.045	.03	.025
94211CC	5R10/25	A	10	25V	4 x 5 x 1.5	*	.13	.08	.05
94220CC	5R10/35	A	10	35V	5 x 5 x 2	*	.09	.07	.065
94369CC	7R10/35	A	10	35V	5 x 7 x 2	*	.11	.06	.04
29892CC	R10/50 NEW	A	10	50V	5 x 11 x 2	*	.067	.055	.045
199048CC	R10J/100	A	10	100V	6 x 11 x 2.5	*	.07	.06	.05
158529CC	R10B100	B	10	100V	6 x 11 x 2.5	*	.08	.07	.055
158326CC	R22B35	B	22	35V	5 x 11 x 2	*	.07	.05	.03
198846CC	R22J/16	A	22	16V	5 x 11 x 2	*	.04	.035	.026
189918CC	R22J/25	A	22	25V	5 x 11 x 2	*	.039	.033	.025
207870CC	R22B/25	B	22	25V	5 x 11 x 2	*	.039	.031	.023
198942CC	R22J/35	A	22	35V	5 x 11 x 2	*	.029	.026	.023
93738CC	R22/50 NEW	A	22	50V	5 x 11 x 2	*	.062	.056	.039
199056CC	R22J/100	A	22	100V	6 x 11 x 2.5	*	.15	.09	.06
198854CC	R33J/16	A	33	16V	5 x 11 x 2	*	.034	.029	.022
198926CC	R33J/25	A	33	25V	5 x 11 x 2	*	.045	.035	.025
93746CC	R33/50 NEW	A	33	50V	6 x 11 x 2.5	*	.055	.05	.045
199064CC	R33J/100	A	33	100V	8 x 11 x 3.5	*	.089	.08	.072
135302CC	R47/10 NEW	A	47	10V	5 x 12 x 2	*	.04	.03	.025
198862CC	R47J/16	A	47	16V	5 x 11 x 2	*	.04	.032	.023
93754CC	R47/25 NEW	A	47	25V	5 x 11 x 2	*	.053	.037	.029
198951CC	R47J/35	A	47	35V	5 x 11 x 2	*	.05	.04	.03
199072CC	R47J/100	A	47	100V	10 x 12 x 5	*	.15	.13	.10
158246CC	R47B25	B	47	25V	5 x 11 x 2	*	.06	.04	.035
31115CC	R47/50 NEW	A	47	50V	6 x 11 x 2.5	*	.067	.056	.05
207812CC	R100/10 NEW	A	100	10V	5 x 11 x 2	*	.08	.06	.05
94289CC	5R100/16	A	100	16V	6 x 5 x 2.5	*	.15	.12	.09
94431CC	7R100/16	A	100	16V	6 x 7 x 2.5	*	.09	.081	.069
93762CC	R100/25 NEW	A	100	25V	6 x 11 x 2.5	*	.078	.056	.039
198969CC	R100J/35	A	100	35V	6 x 11 x 2.5	*	.07	.06	.05
29963CC	R100/50 NEW	A	100	50V	8 x 11 x 3.5	*	.078	.067	.056
158393CC	R100B50	B	100	50V	8 x 11 x 3.5	*	.09	.07	.055
207845CC	R180/16	B	180	16V	6 x 15 x 2.5	*	.07	.06	.04

Part No.	Mfr. Cross Ref. No.†	Op. Temp	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
						1	10	100	500
135124CC	7R220/10	A	220	10V	6 x 7 x 2.5	\$.26	\$.20	\$.15	\$.105
311757CC	R220B10 NEW	B	220	10V	6 x 11 x 2.5	.25	.191	.143	.102
198871CC	R220J/16	A	220	16V	6 x 11 x 2.5	*	.11	.07	.06
30497CC	R220/25 NEW	A	220	25V	8 x 11 x 3.5	*	.08	.06	.05
158262CC	R220B25	B	220	25V	8 x 11 x 3.5	*	.12	.09	.07
93771CC	R220/35 NEW	A	220	35V	8 x 12 x 5	*	.09	.08	.07
93779CC	R220/50 NEW	A	220	50V	10 x 15 x 5	*	.167	.133	.10
158406CC	R220B50	B	220	50V	10 x 12 x 5	.34	.306	.277	.264
199081CC	R220J/100	A	220	100V	12 x 25 x 5	.75	.55	.49	.39
198890CC	R330J/16 NEW	A	330	16V	8 x 11 x 3.5	*	.14	.07	.06
93797CC	R330/25 NEW	A	330	25V	8 x 12 x 3.5	*	.144	.10	.089
198977CC	R330J/35	A	330	35V	10 x 12 x 5	.45	.29	.22	.16
199099CC	R330J/100	A	330	100V	12 x 25 x 5	1.15	1.03	.81	.62
93810CC	R470/16 NEW	A	470	16V	8 x 11 x 3.5	*	.11	.103	.099
158203CC	R470B16	B	470	16V	8 x 11 x 3.5	*	.12	.10	.09
31182CC	R470/25 NEW	A	470	25V	8 x 14 x 5	*	.133	.111	.10
158289CC	R470B25	B	470	25V	10 x 12 x 5	*	.15	.12	.10
93818CC	R470/35 NEW	A	470	35V	10 x 16 x 5	*	.17	.15	.13
93826CC	R470/50 NEW	A	470	50V	10 x 20 x 5	.322	.32	.21	.144
158465CC	R470B63	B	470	63V	12 x 20 x 5	.30	.27	.24	.21
199101CC	R470J/100	A	470	100V	16 x 25 x 7.5	1.15	.78	.69	.58
30016CC	R1000/16 NEW	A	1000	16V	10 x 16 x 5	*	.16	.14	.12
93834CC	R1000/25 NEW	A	1000	25V	10 x 20 x 5	*	.25	.23	.18
158297CC	R1000B25	B	1000	25V	10 x 20 x 5	.35	.29	.25	.19
286045CC	Q399L	A	1000	35V	12 x 20 x 5	.50	.46	.41	.33
158377CC	R1000B35	B	1000	35V	10 x 20 x 5	.49	.45	.40	.35
93842CC	R1000/50 NEW	A	1000	50V	13 x 25 x 5	.58	.51	.455	.38
302578CC	RS1000/50	A	1000	50V	18 x 21 x 7.5	.45	.40	.36	.31
199110CC	R1000J/100	A	1000	100V	18 x 40 x 7.5	2.99	2.69	2.15	1.61
133146CC	R2200/16 NEW	A	2200	16V	10 x 20 x 5	.355	.31	.267	.244
30534CC	R2200/25 NEW	A	2200	25V	13 x 21 x 5	.61	.545	.444	.333
198985CC	R2200J/35	A	2200	35V	16 x 25 x 7.5	1.39	1.25	.99	.74
158431CC	R2200B50	B	2200	50V	16 x 35 x 7.5	.99	.89	.70	.61
198897CC	R3300J/16	A	3300	16V	12 x 25 x 5	.49	.39	.33	.29
30892CC	R3300/25 NEW	A	3300	25V	13 x 29 x 5	.79	.72	.545	.48
198993CC	R3300J/35	A	3300	35V	16 x 35 x 7.5	.87	.77	.67	.57
199013CC	R3300J/50	A	3300	50V	18 x 35 x 7.5	2.15	1.95	1.71	1.46
198900CC	R4700J/16	A	4700	16V	16 x 25 x 7.5	.79	.69	.51	.45
93851CC	R4700/25 NEW	A	4700	25V	16 x 31 x 7.5	1.10	.94	.78	.61
199005CC	R4700J/35	A	4700	35V	18 x 35 x 7.5	1.35	1.25	1.15	1.05
163302CC	R4700/50 NEW	A	4700	50V	22 x 42 x 10	2.25	1.99	1.67	1.45
31511CC	R6800/16 NEW	A	6800	16V	16 x 26 x 7.5	1.10	.87	.76	.66
198934CC	R6800J/25	A	6800	25V	18 x 35 x 7.5	2.55	1.96	1.49	1.15

Other Manufacturers — Limited Great Deals

29831CC	R1/50	A	1	50V	5 x 11 x 2	*	\$.057	\$.048	\$.038
93729CC	R2.2/50	A	2.2	50V	5 x 11 x 2	*	.034	.03	.023
135183CC	R3.3/50	A	3.3	50V	5 x 11 x 2	*	.045	.036	.023
31000CC	R4.7/50	A	4.7	50V	5 x 11 x 2	*	.038	.033	.026
29891CC	R10/50	A	10	50V	5 x 11 x 2	*	.06	.05	.04
93737CC	R22/50	A	22	50V	5 x 11 x 2	*	.06	.05	.035
93745CC	R33/50	A	33	50V	5 x 11 x 2	*	.05	.045	.04
135301CC	R47/10	A	47	10V	5 x 12 x 2	*	.036	.027	.022
93753CC	R47/25	A	47	25V	5 x 11 x 2	*	.048	.033	.026
31114CC	R47/50	A	47	50V	6 x 11 x 2.5	*	.06	.05	.045
207811CC	R100/10	A	100	10V	5 x 11 x 2	*	.072	.054	.045
93761CC	R100/25	A	100	25V	6 x 11 x 2.5	*	.07	.05	.035
29962CC	R100/50	A	100	50V	8 x 11 x 3.5	*	.07	.06	.05
30496CC	R220/25	A	220	25V	8 x 11 x 3.5	*	.08	.06	.05
93770CC	R220/35	A	220	35V	10 x 12 x 5	*	.09	.08	.07

93778CC	R220/50	A	220	50V	10 x 12 x 5	*	\$.15	\$.12	\$.09
198889CC	R330J/16	A	330	16V	8 x 11 x 3.5	*	.126	.063	.054
93796CC	R330/25	A	330	25V	10 x 12 x 5	*	.13	.09	.08
93809CC	R470/16	A	470	16V	8 x 11 x 3.5	*	.099	.095	.089
31181CC	R470/25	A	470	25V	10 x 12 x 5	*	.12	.10	.09
93817CC	R470/35	A	470	35V	10 x 16 x 5	*	.153	.135	.117
93825CC	R470/50	A	470	50V	12 x 20 x 5	.29	.27	.19	.13
30015CC	R1000/16	A	1000	16V	10 x 16 x 5	*	.178	.156	.133
93833CC	R1000/25	A	1000	25V	10 x 20 x 5	*	.278	.256	.20
93841CC	R1000/50	A	1000	50V	12 x 25 x 5	.52	.46	.41	.34
133145CC	R2200/16	A	2200	16V	12 x 20 x 5	.32	.28	.24	.22
30533CC	R2200/25	A	2200	25V	12 x 25 x 5	.55	.49	.40	.30
30891CC	R3300/25	A	3300	25V	16 x 25 x 7.5	.71	.65	.49	.43
93850CC	R4700/25	A	4700	25V	16 x 31 x 7.5	.99	.85	.70	.53
163301CC	R4700/50	A	4700	50V	22 x 42 x 10	1.99	1.79	1.50	1.31
31510CC	R6800/16	A	6800	16V	16 x 35 x 7.5	.99	.78	.68	.59

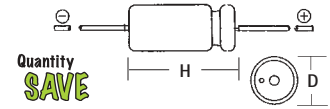
JAMECO ValuePro

A JAMECO
EXCLUSIVE

Aluminum Axial-Lead Electrolytic Capacitors

General purpose low voltage 85°C maximum

Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2µA, whichever is greater

Quantity
SAVE

† CROSS REFERENCES: Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS; Sprague: 501D/513D; UCC: SME; Panasonic: SU

* Prepackaged: order in
increments of 10, 100 or 500* Prepackaged: order in
increments of 10, 100 or 500

Part No.	Mfr. Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
10867CC	A1/50 NEW	1	50V	5 x 13	*	\$.15	\$.115	\$.09
93570CC	A2.2/50 NEW	2.2	50V	6 x 13	*	.11	.10	.09
199419CC	A3.3/50	3.3	50V	6 x 12	*	.19	.12	.09
11077CC	A4.7/50 NEW	4.7	50V	6 x 13	*	.18	.13	.11
199427CC	A6.8/50	6.8	50V	6 x 12	*	.19	.14	.10
199144CC	A10J/16	10	16V	6 x 12	*	.20	.14	.10
199259CC	A10J/25	10	25V	5 x 12	*	.15	.10	.085
93578CC	A10/35 NEW	10	35V	6 x 13	*	.133	.107	.08
10883CC	A10/50 NEW	10	50V	6 x 12	*	.167	.133	.089
199152CC	A22J/16	22	16V	6 x 12	*	.17	.15	.11
199267CC	A22J/25	22	25V	6 x 12	*	.20	.14	.10
10998CC	A22/50 NEW	22	50V	6 x 12	*	.19	.14	.10
199161CC	A33J/16	33	16V	6 x 13	*	.13	.10	.075
199347CC	A33J/35	33	35V	6.3 x 16	*	.19	.13	.098
199435CC	A33J/50	33	50V	6.3 x 16	*	.18	.12	.09
199179CC	A47J/16	47	16V	6.3 x 12	*	.14	.10	.085
135320CC	A47/25 NEW	47	25V	8 x 16	*	.15	.14	.09
199355CC	A47J/35	47	35V	6.3 x 16	*	.20	.14	.10
11106CC	A47/50 NEW	47	50V	8 x 16	*	.19	.14	.10
199443CC	A68J/50	68	50V	8 x 15	*	.25	.21	.17
199187CC	A100J/16	100	16V	6.3 x 16	*	.21	.18	.14
199283CC	A100J/25	100	25V	8 x 16	*	.25	.20	.18
93552CC	A100/35 NEW	100	35V	8 x 16	*	.23	.19	.145
10912CC	A100/50 NEW	100	50V	8 x 20	*	.245	.20	.155
199195CC	A220J16	220	16V	8 x 16	*	.17	.13	.11
199291CC	A220J/25	220	25V	8 x 16	*	.25	.21	.18
199363CC	A220J/35	220	35V	10 x 17	*	.31	.25	.23

Part No.	Mfr. Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
11018CC	A220/50 NEW	220	50V	10 x 17	\$.35	\$.29	\$.25	\$.192
199208CC	A330J/16	330	16V	8 x 16	*	.19	.18	.135
199371CC	A330J/35	330	35V	10 x 17	.35	.32	.25	.19
199451CC	A330J/50	330	50V	13 x 22	.44	.38	.35	.31
199216CC	A470J/16	470	16V	8 x 16	.25	.23	.18	.16
199312CC	A470J/25	470	25V	10 x 17	.35	.30	.26	.21
199380CC	A470J/35	470	35V	10 x 21	.46	.37	.34	.27
11122CC	A470/50 NEW	470	50V	13 x 21	.59	.49	.42	.34
199460CC	A680J/50	680	50V	16 x 25	.79	.71	.57	.43
93632CC	A1000/16 NEW	1000	16V	10 x 20	.51	.46	.42	.40
10955CC	A1000/25 NEW	1000	25V	10 x 20	.66	.54	.49	.38
93650CC	A1000/35 NEW	1000	35V	13 x 25	.94	.83	.655	.545
147257CC	A1000/50 NEW	1000	50V	16 x 25	.88	.77	.66	.545
213356CC	A1000/50-1	1000	50V	22 x 41	.69	.59	.55	.49
11034CC	A2200/16 NEW	2200	16V	13 x 21	.88	.79	.72	.655
199321CC	A2200J/25	2200	25V	16 x 28	.99	.83	.72	.55
93657CC	A2200/35	2200	35V	16 x 30	1.25	1.10	.99	.85
199478CC	A2200J/50	2200	50V	18 x 42	2.29	1.93	1.79	1.65
93666CC	A3300/25 NEW	3300	25V	16 x 26	1.10	.99	.88	.77
199398CC	A3300J/35	3300	35V	18 x 37	3.15	2.84	2.27	1.70
199486CC	A3300J/50	3300	50V	22 x 43	3.95	3.15	2.35	2.05
199232CC	A4700J/16	4700	16V	16 x 30	1.55	1.37	1.09	.95
93674CC	A4700/25 NEW	4700	25V	16 x 30	1.69	1.49	1.29	.99
199401CC	A4700J/35	4700	35V	18 x 40	2.49	2.25	1.79	1.35
158810CC	A4700A50	4700	50V	25 x 43	2.79	2.29	2.09	1.79
199241CC	A6800J/16	6800	16V	16 x 33	1.99	1.35	1.12	.84
199339CC	A6800J/25	6800	25V	18 x 40	1.59	1.45	1.35	1.19
93682CC	A10000/16 NEW	10000	16V	16 x 33	2.50	2.28	1.83	1.32

Other Manufacturers — Limited Great Deals*

10866CC	A1/50	1	50V	5 x 13	*	\$.135	\$.104	\$.081
93569CC	A2.2/50	2.2	50V	6 x 13	*	.099	.09	.081
11076CC	A4.7/50	4.7	50V	6 x 13	*	.162	.117	.099
93577CC	A10/35	10	35V	6 x 13	*	.155	.134	.119
10882CC	A10/50	10	50V	6 x 12	*	.15	.12	.08
10997CC	A22/50	22	50V	6 x 12	*	.17	.126	.09
135319CC	A47/25	47	25V	8 x 16	*	.135	.126	.081
11105CC	A47/50	47	50V	8 x 16	*	.17	.126	.09
93551CC	A100/35	100	35V	8 x 16	*	.21	.17	.13
10911CC	A100/50	100	50V	8 x 20	*	.22	.18	.14

11017CC	A220/50	220	50V	10 x 20	\$.39	\$.32	\$.278	\$.21
11121CC	A470/50	470	50V	13 x 31	.53	.44	.38	.31
93631CC	A1000/16	1000	16V	13 x 27	.46	.41	.38	.36
10954CC	A1000/25	1000	25V	13 x 31	.59	.49	.44	.34
93649CC	A1000/35	1000	35V	13 x 26	.85	.75	.59	.49
147256CC	A1000/50	1000	50V	16 x 31	.79	.69	.59	.49
11033CC	A2200/16	2200	16V	16 x 40	.79	.71	.65	.59
93665CC	A3300/25	3300	25V	16 x 32	.99	.89	.79	.69
93673CC	A4700/25	4700	25V	22 x 39	1.55	1.34	1.16	.89
93681CC	A10000/16	10000	16V	22 x 51	2.25	2.05	1.85	1.49

* Capacitor dimensions and styles may vary

JAMECO ValuePro

Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

- Designed as an input filter for switched mode power supply; standard 10mm (0.40") snap-in spacing
- Operating temperature range: -40°C to +85°C max. leakage current: 0.02CV (uA) or 3mA whichever is smaller
- Can-Top safety vent

† CROSS REFERENCES: Aero M: LP/LPR; Elna: LP3/LP4; Illinois Capacitor: LBA/LPR; Mallory: LPX; Marcon: CEAWF;

Nichicon: LLK/LLQ; Panasonic: TS-UP/TS-U; Phillips (MEPCO): 3487/3489; Rubycon: RSP; Sprague: 80D/82D; United Chemicon: SMG(VN)/SMH(VN)

Part No.	Mfr. Cross Ref. No.†	Capacitance	Voltage	Size (mm) D x H	Pricing		
					1	10	100
203212CC	SN220/400/2	220µF	400V	22 x 51	\$4.95	\$4.17	\$2.94
203220CC	SN220/400/3	220µF	400V	30 x 30	4.29	3.69	2.89
203238CC	SN270/350	270µF	350V	25 x 40	4.69	3.75	2.40
203246CC	SN330/400	330µF	400V	30 x 46	4.99	4.24	3.18
115378CC	SN470/200	470µF	200V	30 x 41	2.49	2.25	1.99
203255CC	SN470/400/4	470µF	400V	35 x 41	7.75	6.32	4.94

Part No.	Mfr. Cross Ref. No.†	Capacitance	Voltage	Size (mm) D x H	Pricing		
					1	10	100
203263CC	SN470/400/5	470µF	450V	35 x 51	\$8.25	\$7.60	\$5.69
155890CC	SN560/200	560µF	200V	23 x 41	3.19	2.69	1.90
203271CC	SN680/200/2	680µF	200V	35 x 25	2.49	2.11	1.58
203289CC	SN680/200/3	680µF	200V	30 x 31	2.15	1.97	1.79
115422CC	SN4700/50	4,700µF	50V	30 x 41	3.19	2.69	1.99
115432CC	SN6800/50	6,800µF	50V	30 x 51	3.15	2.68	2.01
157737CC	SN10000/50	10,000µF	50V	35 x 40	4.95	4.10	3.99

Other Manufacturers — Limited Great Deals*

203211CC	SN220/400/2	220µF	400V	22 x 51	\$4.45	\$3.75	\$2.65
115377CC	SN470/200	470µF	200V	30 x 41	2.25	2.03	1.79
203254CC	SN470/400/4	470µF	400V	35 x 41	6.99	5.69	4.29

203262CC	SN470/400/5	470µF	450V	35 x 51	\$7.45	\$6.84	\$5.12
155889CC	SN560/200	560µF	200V	23 x 41	2.89	2.42	1.71
115431CC	SN6800/50	6,800µF	50V	30 x 51	2.85	2.41	1.81

* Capacitor dimensions and styles may vary

Color Code Legend
New Sale Qty. Save

Order 24/7 Toll Free 1-800-831-4242



Ceramic Disc Capacitors (±20%)

25, 50 and 1000 Volt,
Z5U Temperature Coefficient



Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.

• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	Capacitance	Voltage	Dia. (mm)	Pricing			
					10	100	1000	5000
135142CC	DC2.2 NEW	2.2pF	50V	5	\$.05	\$.035	\$.019	\$.015
15334CC	DC10 NEW	10pF	50V	5	.07	.05	.02	.015
15406CC	DC22 NEW	22pF	50V	6	.078	.055	.028	.022
15511CC	DC47 NEW	47pF	50V	5	.055	.039	.022	.017
15342CC	DC100 NEW	100pF	50V	5	.056	.039	.028	.022
15414CC	DC220 NEW	220pF	50V	5	.05	.035	.025	.015
15449CC	DC330 NEW	330pF	50V	5	.05	.035	.025	.022
15529CC	DC470 NEW	470pF	50V	5	.09	.072	.028	.024
207853CC	DC820/1000	820pF	1000V	14	.07	.059	.048	.036
15191CC	DC.001 NEW	.001µF	50V	6	.067	.056	.028	.024
97342CC	DC.0022/1K20	.0022µF	1000V	11	.22	.18	.16	.11
15212CC	DC.0047 NEW	.0047µF	50V	6	.05	.035	.03	.02
15230CC	DC.01 NEW	.01µF	50V	6	.067	.045	.033	.023
97376CC	DC.01/1K20 NEW	.01µF	1000V	12	.20	.133	.093	.073
15246CC	DC.022 NEW	.022µF	50V	8	.07	.05	.04	.03
15254CC	DC.047 NEW	.047µF	50V	8	.093	.077	.063	.044
151117CC	DC.1/25 NEW	.1µF	25V	6	.155	.145	.089	.078
15271CC	DC.1 NEW	.1µF	50V	8	.167	.145	.128	.105

Other Manufacturers — Limited Great Deals*

135141CC	DC2.2	2.2pF	50V	5	\$.05	\$.035	\$.019	\$.015
15333CC	DC10	10pF	50V	5	.063	.045	.018	.013
15405CC	DC22	22pF	50V	6	.07	.05	.025	.02
15510CC	DC47	47pF	50V	5	.05	.035	.02	.015
15341CC	DC100	100pF	50V	5	.05	.035	.025	.02
15413CC	DC220	220pF	50V	5	.045	.032	.023	.013
15448CC	DC330	330pF	50V	5	.045	.032	.023	.013
15528CC	DC470	470pF	50V	5	.08	.065	.025	.022
15190CC	DC.001	.001µF	50V	6	.06	.05	.025	.022
97341CC	DC.0022/1K20	.0022µF	1000V	11	.20	.162	.144	.099
15211CC	DC.0047	.0047µF	50V	6	.045	.032	.027	.018
15229CC	DC.01	.01µF	50V	6	.06	.04	.03	.02
97375CC	DC.01/1K20	.01µF	1000V	12	.18	.12	.084	.066
15245CC	DC.022	.022µF	50V	8	.063	.045	.036	.027
15253CC	DC.047	.047µF	50V	8	.084	.069	.057	.04
151116CC	DC.1/25	.1µF	25V	6	.14	.13	.08	.07
15270CC	DC.1	.1µF	50V	8	.15	.13	.115	.095

*Capacitor dimensions and styles may vary

Mylar Capacitor Kit

SAVE \$11

Includes 280 pcs. (10 values) 100V ±10% Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001µF	.022µF	.047µF	.47µF	.01µF
.0047µF	.033µF	.22µF	1µF	.1µF
Part No.	Description	Wt. (lbs.)		
81883CC	280 pcs. Mylar Capacitor kit	5.1	\$37.95	\$34.15
130358CC	Refill for 81883CC (280 pcs.)	0.3	19.95	17.95

Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 values) 50V ±20%
Monolithic Ceramic Capacitors

SAVE \$10

10 each	10 each	10 each	10 each	100 each
22pF	.001µF	.047µF	.47µF	.01µF
100pF	.0022µF	.22µF	1µF	.1µF
Part No.	Description	Wt. (lbs.)		
171475CC	280 pcs. Monolithic Capacitor kit	5.0	\$29.95	\$26.95
171483CC	Refill for 171475CC (280 pcs.)	0.3	17.95	15.95



Monolithic Ceramic Capacitors (±20%) (Z5U Series)

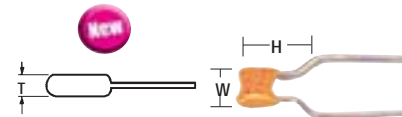


Applications:

- Data processing
- Communications engineering

Operating temperature range:

-10°C to +85°C



* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	Capacitance	Volt.	Size (mm) W x T x H	Pricing				
					1	10	100	1000	5000
81542CC	MD10	10pF	50V	3.5 x 2.0 x 3.0	*	\$.10	\$.065	\$.045	\$.034
81534CC	MD22	22pF	50V	4.0 x 2.0 x 4.0	*	.105	.081	.05	.045
81526CC	MD100	100pF	50V	3.5 x 2.0 x 3.0	*	.10	.078	.05	.039
81518CC	MD.001	.001µF	50V	4.5 x 2.0 x 3.0	*	.10	.078	.075	.068
138182CC	MD.0022	.0022µF	50V	4.0 x 2.0 x 5.5	*	.078	.067	.055	.045
25508CC	MD.01	.01µF	50V	3.5 x 2.0 x 3.0	*	.09	.06	.045	.041
57622CC	MD.047	.047µF	50V	2.5 x 2.5 x 3.0	*	.08	.07	.05	.039
25524CC	MD.1	.1µF	50V	6.0 x 2.0 x 4.0	*	.078	.067	.044	.039
25541CC	MD.22	.22µF	50V	6.0 x 2.0 x 4.5	*	.189	.133	.089	.072
138238CC	MD.33	.33µF	50V	6.0 x 2.0 x 8.0	*	.178	.155	.122	.078
25559CC	MD.47	.47µF	50V	4.5 x 2.5 x 4.5	*	.28	.21	.145	.133
81510CC	MD1	1µF	50V	6.0 x 3.0 x 7.0	.53	.48	.355	.255	.233

Other Manufacturers — Limited Great Deals*

81541CC	MD10	10pF	50V	3.5 x 2.0 x 3.0	*	\$.09	\$.056	\$.04	\$.027
81533CC	MD22	22pF	50V	4.0 x 2.0 x 4.0	*	.095	.073	.045	.04
81525CC	MD100	100pF	50V	3.5 x 2.0 x 3.0	*	.09	.07	.045	.035
81517CC	MD.001	.001µF	50V	4.5 x 2.0 x 3.0	*	.09	.07	.05	.035
138181CC	MD.0022	.0022µF	50V	4.0 x 2.0 x 5.5	*	.07	.06	.05	.04
138202CC	MD.0047	.0047µF	50V	5.0 x 2.0 x 5.5	*	.07	.056	.049	.044
25507CC	MD.01	.01µF	50V	3.5 x 2.0 x 3.0	*	.10	.067	.05	.045
57621CC	MD.047	.047µF	50V	2.5 x 2.5 x 3.0	*	.072	.063	.045	.027
25523CC	MD.1	.1µF	50V	6.0 x 2.0 x 4.0	*	.07	.06	.04	.035
25540CC	MD.22	.22µF	50V	6.0 x 2.0 x 4.5	*	.17	.12	.08	.06
138237CC	MD.33	.33µF	50V	6.0 x 2.0 x 8.0	*	.16	.14	.11	.07
25558CC	MD.47	.47µF	50V	4.5 x 2.5 x 4.5	*	.25	.19	.13	.12
81509CC	MD1	1µF	50V	6.0 x 3.0 x 7.0	.48	.43	.32	.23	.21

*Capacitor dimensions and style may vary

Do the Math:

Savings + Quality = ValuePro

As you are well aware, embedded applications rarely require components with greater specs than those off-the-shelf. Frequency response, impedance, leakage, quality and more must be within typical specs, but near mil-spec quality is overkill.

To help you save more money, Jameco recently introduced its exclusive line of professional-grade ValuePro passive and interconnect components. Now you can purchase high-quality products and save about 20% versus other name brand offerings.

Plus, when you build ValuePro products into your designs, you can trust that they'll be consistently reliable, compatible, available, and value-priced. Our customers depend on Jameco for great components at awesome prices, and with ValuePro, we're taking that concept to the next level!



Practical Practices
Money Saving Tips for the Engineer



Memory Back-Up Capacitors

Applications:

- Memory back-up of remote controllers
- Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)

Features:

- Small size vs. capacitance
- Voltage: 5.5VDC
- Excellent voltage holding characteristics for low back-up currents



Part No.	Mfr. Cross Ref. No.	Capacitance (Farad)	1	10	100
142922CC	MBC.047/5.5	.047	\$1.49	\$1.34	\$.99
142949CC	MBC.22/5.5	.22	2.09	1.79	1.41
143010CC	MBC.47/5.5	.47	3.49	3.15	2.59

Other Manufacturers — Limited Great Deals

142957CC	MBC1.0/5.5	1.0	\$4.29	\$3.85	\$3.49
227811CC	S5R5V105	1.0	4.49	3.82	2.86

Mylar Capacitors (±10%)
Metallized Polyester Film Capacitors

- High performance at low cost
- Non-inductive construction

Operating temperature range	-40°C to +85°C
Dissipation factor	≤.01 (at 1kHz)
Dielectric strength	150% of rated voltage for 5 sec.

† Cross References:

Panasonic: ECQ-E Series; Sprague: DF/450P/451P/453P;
 Westlake: 160/168/ 185/167/184/186; Rubycon: MC/MN; Mepco: 713A1/719A1/C280;
 TRW: X601PE/ X601CPE; Packtron: MF/RB; Secor: MMKS/MMKR/MMDR; RIFA:
 PHE353/ PHE354; Roederstein: MKT 1818/MKT 1822; WIMA: MKS; CSF Thompson:
 MD/ MC; Siemens: B325X-XX; NIC: NEM/NRM;
 Nichicon: DDXM; Phillips: 712 A1 series

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.†	Capacitance	Volt. (V)	Size (mm)* L x T x H	Pricing			
					1	10	100	1000
26833CC	MY.001	.001µF	100	7.0 x 3.0 x 7.0	*	\$.10	\$.07	\$.05
207802CC	MY.0015/1000	.0015µF	1000	23.5 x 5.1 x 10.7	*	.11	.06	.05
26868CC	MY.0022	.0022µF	100	6.0 x 3.0 x 10.0	*	.09	.06	.04
26876CC	MY.0047	.0047µF	100	6.0 x 3.0 x 9.0	*	.14	.13	.11
207829CC	MY.0068/220	.0068µF	220	18.0 x 5.5 x 10.0	*	.12	.07	.05
26884CC	MY.01	.01µF	100	6.0 x 3.0 x 7.0	*	.10	.06	.04
207837CC	MY.018/50	.018µF	50	6.1 x 2.6 x 11.3	*	.16	.136	.102
26905CC	MY.022	.022µF	100	6.0 x 3.0 x 10.0	*	.15	.10	.06
26921CC	MY.033	.033µF	100	8.0 x 4.0 x 11.0	*	.15	.10	.06
207861CC	MY.033/400	.033µF	400	11.0 x 4.0 x 8.0	.28	.224	.198	.164
26930CC	MY.047	.047µF	100	8.0 x 4.0 x 12.0	*	.15	.10	.06
135562CC	MY.1/50	.1µF††	50	14.0 x 6.0 x 12.0	*	.11	.062	.056
26956CC	MY.1	.1µF	100	12.5 x 5.0 x 9.5	*	.17	.12	.07
93921CC	MY.1/250	.1µF	250	12.5 x 5.5 x 10	*	.19	.16	.13
26972CC	MY.22	.22µF	100	12.5 x 5.5 x 10	*	.19	.12	.085
93964CC	MY.33/250	.33µF	250	18.0 x 7.0 x 12.5	.32	.25	.21	.19
26999CC	MY.47	.47µF	100	18.0 x 6.0 x 11.5	.39	.29	.20	.17
27001CC	MY1	1µF	100	18.0 x 7.5 x 14.0	.49	.39	.33	.29
93981CC	MY1/250	1µF	250	26.0 x 9.0 x 16.0	.50	.45	.40	.34
93999CC	MY2.2/250	2.2µF	250	26.0 x 9.0 x 16.0	.89	.69	.59	.45

†† ±20% tolerance * Capacitor dimensions and styles may vary

Dipped Silver Mica Capacitors (±5%)
Metalized Polyester Film Capacitors

- Case type: DM15
- Lead Space: 0.23"
- Tolerance: ±5%
- Operating temp. range: -55° to +125°C

Part No.	Mfr. Cross Ref. No.	Capacitance	Volt. (V)	Size (mm) L x T x H*	1	10	100	1000
15991CC	DM100	10pF	500	11 x 4 x 9	\$.49	\$.38	\$.31	\$.30
16037CC	DM220	22pF	500	11 x 4 x 9	.49	.39	.29	.23
16070CC	DM330	33pF	500	11 x 4 x 9	.49	.38	.31	.29
16096CC	DM470	47pF	500	11 x 4 x 9	.49	.39	.29	.25
16002CC	DM101	100pF	500	11 x 4 x 9	.49	.39	.31	.27
16088CC	DM331	330pF	500	11 x 4 x 9	.89	.73	.55	.45
16109CC	DM471	470pF	500	11 x 4 x 9	1.05	.95	.79	.65
16011CC	DM102	1000pF	100	11 x 4 x 9	1.19	.99	.89	.79

* Capacitor dimensions and styles may vary



Dipped Tantalum Capacitors (±10%)

Resin Dipped Solid Tantalum Capacitors

- Flame retardant coating
- Low leakage current
- Designed for entertainment and commercial equipment
- Exceptional temperature stability
- Moisture-resistant

Operating temp. range	-55°C to +85°C (+125°C with derating)
Rated voltage DC	≤ +85°C

† Cross References:

Panasonic: EF Series; AVX: Tap Series; Sprague: 196D and 199D;
 Matsuo: 202; Kemet: T350/ T360; Mepco: 49GS; NEC: DN;
 Nichicon: 599; NIC: NDTM; Hitachi: TSD-3

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.†	Capacitance	Voltage (V)	Size (mm) D x H x L.S.	Pricing			
					1	10	100	1000
33487CC	TM.1	.1µF	35	4.5 x 7	*	\$.25	\$.19	\$.15
33508CC	TM.22	.22µF	35	4.5 x 7	*	.25	.19	.15
33524CC	TM.33	.33µF	35	4.5 x 7	*	.25	.19	.15
33532CC	TM.47	.47µF	35	4.5 x 7	*	.20	.15	.14
61103CC	TM.68	.68µF	35	4.5 x 7	*	.25	.19	.17
154861CC	TM1/25	1µF	25	4.5 x 7	.32	.29	.25	.22
33663CC	TM1	1µF	35	4.5 x 7	.32	.29	.25	.22
94002CC	TM2.2/16	2.2µF	16	4.5 x 7	*	.19	.16	.12
33735CC	TM2.2/25	2.2µF	35	5 x 8	.39	.35	.29	.22
33770CC	TM3.3	3.3µF	35	5 x 8	.55	.36	.33	.31
94036CC	TM4.7/16	4.7µF	16	5 x 8	.47	.38	.28	.20
94044CC	TM4.7/25	4.7µF	25	5 x 8	.49	.44	.33	.20
33807CC	TM4.7	4.7µF	35	5.5 x 9.5	.45	.42	.37	.27
33874CC	TM6.8	6.8µF	35	6.5 x 11	.59	.45	.36	.32
94061CC	TM10/16	10µF	16	5 x 8	.45	.39	.29	.25
94079CC	TM10/25	10µF	25	5.5 x 9.5	.59	.50	.40	.36
33690CC	TM10	10µF	35	5.5 x 11	.89	.79	.69	.59
33719CC	TM15	15µF	25	6.5 x 11	.89	.80	.72	.61
33752CC	TM22	22µF	6.3	5.5 x 9.5	.45	.37	.26	.22
94095CC	TM22/16	22µF	16	5.5 x 9.5	.69	.59	.49	.45
33786CC	TM33	33µF	25	8.5 x 13	2.35	2.09	1.62	1.05
94124CC	TM47/16	47µF	16	6.5 x 11	1.69	1.55	1.35	.95
33823CC	TM47	47µF	25	9.5 x 16.5	3.39	3.05	2.35	1.85
33701CC	TM100	100µF	6.3	8.5 x 13	1.19	1.09	.95	.85

Other Manufacturers — Limited Great Deals*

33486CC	TM.1	.1µF	35	4.5 x 7	\$.23	\$.225	\$.171	\$.135
33507CC	TM.22	.22µF	35	4.5 x 7	*	.225	.171	.135
33523CC	TM.33	.33µF	35	4.5 x 7	*	.225	.171	.135
33531CC	TM.47	.47µF	35	4.5 x 7	*	.18	.135	.126
61102CC	TM.68	.68µF	35	4.5 x 7	*	.225	.171	.153
154860CC	TM1/25	1µF	25	4.5 x 7	.29	.261	.225	.198
33662CC	TM1	1µF	35	4.5 x 7	.29	.261	.225	.198
94001CC	TM2.2/16	2.2µF	16	4.5 x 7	.29	.24	.20	.15
94019CC	TM2.2/25	2.2µF	25	4.5 x 7	.35	.315	.261	.225
33734CC	TM2.2	2.2µF	35	5 x 8	.35	.315	.261	.198
33769CC	TM3.3	3.3µF	35	5 x 8	.50	.324	.297	.279
94035CC	TM4.7/16	4.7µF	16	5 x 8	.42	.38	.32	.22
94043CC	TM4.7/25	4.7µF	25	5 x 8	.44	.396	.297	.18
33806CC	TM4.7	4.7µF	35	5.5 x 9.5	.41	.378	.333	.243
33873CC	TM6.8	6.8µF	35	6.5 x 11	.53	.405	.324	.288
94060CC	TM10/16	10µF	16	5.0 x 8	.41	.351	.261	.225
94078CC	TM10/25	10µF	25	5.5 x 9.5	.53	.45	.36	.324
33689CC	TM10	10µF	35	6.5 x 11	.80	.71	.62	.53
33718CC	TM15	15µF	25	6.5 x 11	.80	.72	.65	.58
33751CC	TM22	22µF	6.3	5.5 x 9.5	.41	.37	.30	.22
94094CC	TM22/16	22µF	16	5.5 x 9.5	.62	.53	.441	.405
94107CC	TM22/25	22µF	25	8.5 x 13	1.59	1.45	.89	.79
33785CC	TM33	33µF	25	8.5 x 13	2.09	1.89	1.45	.95
94123CC	TM47/16	47µF	16	6.5 x 11	1.55	1.39	1.25	.86
33822CC	TM47	47µF	25	9.5 x 16.5	3.05	2.75	2.09	1.65
33700CC	TM100	100µF	6.3	8.5 x 13	1.09	.99	.86	.77

* Capacitor dimensions and styles may vary

For Capacitor Component Kits see page 62.

Component Cabinet Kits

Color Code Legend
New Sale Qty. Save

Kits Include the Most Popular Components and a Cabinet with Extra Drawers for Your Customized Expansion

Each Kit includes a 20-Drawer Component Cabinet (319599CC), 20 clear plastic drawers (319601CC), 20 clear dividers (319610CC), 30 adhesive labels for drawers to identify parts in kit, and all the Electronic Components listed in each kit.



81875CC (Capacitor Kit)

20-drawer component cabinet with every kit!

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Cabinet: ABS-Black
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Weight: 4.6 to 6.4 lbs.
- Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.

Need a refill?
Just call
1-800-831-4242



81832CC (Resistor Kit)

Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 values) $\pm 20\%$ Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100 μ F @ 50V	1000 μ F @ 16V	1 μ F @ 50V	3.3 μ F @ 50V	22 μ F @ 50V
220 μ F @ 25V	2200 μ F @ 25V	1 μ F @ 100V	4.7 μ F @ 50V	47 μ F @ 50V
470 μ F @ 25V	3300 μ F @ 25V	2.2 μ F @ 50V	10 μ F @ 50V	100 μ F @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81867CC	240 pcs. Radial Capacitor kit	5.3	\$29.95	\$26.95
130331CC	Refill for 81867CC (240 pcs.)	0.5	17.95	16.49

Axial Electrolytic Capacitor Kit

Includes 140 pcs. (10 values) $\pm 20\%$ Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47 μ F @ 50V	220 μ F @ 50V	1000 μ F @ 25V	1 μ F @ 50V	10 μ F @ 50V
100 μ F @ 50V	470 μ F @ 50V	2200 μ F @ 16V	4.7 μ F @ 50V	2.2 μ F @ 50V
Part No.	Description	Wt. (lbs.)	1	10
81875CC	140 pcs. Axial Capacitor kit	5.3	\$37.95	\$34.15
130340CC	Refill for 81875CC (140 pcs.)	0.6	24.95	22.49

Mylar Capacitor Kit

Includes 280 pcs. (10 values) 100V $\pm 10\%$ Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001 μ F	.022 μ F	.047 μ F	.47 μ F	.01 μ F
.0047 μ F	.033 μ F	.22 μ F	1 μ F	.1 μ F
Part No.	Description	Wt. (lbs.)	1	10
81883CC	280 pcs. Mylar Capacitor kit	5.1	\$37.95	\$34.15
130358CC	Refill for 81883CC (280 pcs.)	0.3	19.95	17.95

Dipped Tantalum Capacitor Kit

Includes 150 pcs. (15 values) $\pm 20\%$ Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1 μ F @ 35V	1 μ F @ 25V	3.3 μ F @ 35V	10 μ F @ 16V	22 μ F @ 16V
.22 μ F @ 35V	1 μ F @ 35V	4.7 μ F @ 35V	10 μ F @ 35V	33 μ F @ 25V
.47 μ F @ 35V	2.2 μ F @ 16V	6.8 μ F @ 35V	15 μ F @ 25V	47 μ F @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81841CC	150 pcs. Tantalum Capacitor kit	4.8	\$79.95	\$71.95
130260CC	Refill for 81841CC (150 pcs.)	0.3	59.95	53.95

Ceramic Disc Capacitor Kit

Includes 520 pcs. (10 values) 50V $\pm 20\%$ Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022 μ F	.01 μ F
22pF	100pF	.001 μ F	.047 μ F	.1 μ F
Part No.	Description	Wt. (lbs.)	1	10
81859CC	520 pcs. Ceramic Capacitor kit	5.0	\$35.95	\$32.35
130232CC	Refill for 81859CC (520 pcs.)	0.3	17.95	16.49

Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 values) 50V $\pm 20\%$ Monolithic Ceramic Capacitors

10 each	10 each	10 each	10 each	100 each
22pF	.001 μ F	.047 μ F	.47 μ F	.01 μ F
100pF	.0022 μ F	.22 μ F	1 μ F	.1 μ F
Part No.	Description	Wt. (lbs.)	1	10
171475CC	280 pcs. Monolithic Capacitor kit	5.0	\$29.95	\$26.95
171483CC	Refill for 171475CC (280 pcs.)	0.3	17.95	15.95

1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/8-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 Ω	330 Ω	1.5k Ω	3.3k Ω	15k Ω	47k Ω	100 Ω	4.7k Ω
47 Ω	390 Ω	2 Ω	5.1k Ω	22k Ω	470k Ω	220 Ω	10k Ω
150 Ω	470 Ω	2.2k Ω	5.6k Ω	27k Ω	1M Ω	1k Ω	100k Ω
270 Ω	680 Ω	2.7k Ω	6.8k Ω	33k Ω	10M Ω		
Part No.	Description	Wt. (lbs.)	1	10			
108329CC	540 pcs. 1/8-watt Resistor kit	4.9	\$24.95	\$22.49			
108302CC	Refill for 108329CC (540 pcs.)	0.2	12.95	11.49			

1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/4-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 Ω	330 Ω	1.2k Ω	2.7k Ω	15k Ω	47k Ω	100 Ω	4.7k Ω
47 Ω	390 Ω	1.5k Ω	3.3k Ω	20k Ω	470k Ω	220 Ω	10k Ω
150 Ω	470 Ω	2k Ω	5.1k Ω	22k Ω	1M Ω	1k Ω	100k Ω
270 Ω	680 Ω	2.2k Ω	5.6k Ω	33k Ω	10M Ω		
Part No.	Description	Wt. (lbs.)	1	10			
81832CC	540 pcs. 1/4-watt Resistor kit	4.9	\$27.95	\$24.95			
103165CC	Refill for 81832CC (540 pcs.)	0.2	12.95	11.49			

1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/2-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10 Ω	330 Ω	1.5k Ω	3.3k Ω	15k Ω	47k Ω	100 Ω	4.7k Ω
47 Ω	390 Ω	2k Ω	5.1k Ω	22k Ω	470k Ω	220 Ω	10k Ω
150 Ω	470 Ω	2.2k Ω	5.6k Ω	27k Ω	1M Ω	1k Ω	100k Ω
270 Ω	680 Ω	2.7k Ω	6.8k Ω	33k Ω	10M Ω		
Part No.	Description	Wt. (lbs.)	1	10			
107879CC	540 pcs. 1/2-watt Resistor kit	5.1	\$29.95	\$26.95			
107852CC	Refill for 107879CC (540 pcs.)	0.4	14.95	13.49			

1/2-Watt Single Turn Cermet Pot Kit

See page 68 (63P Series) for photos and specs.

Includes 100 pcs. (10 values) 1/2-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
63P500 Ω	63P5k Ω	63P500k Ω	63P1k Ω	63P50k Ω
63P2k Ω	63P20k Ω	63P1M Ω	63P10k Ω	63P100k Ω
Part No.	Description	Wt. (lbs.)	1	10
85032CC	100 pcs. Single turn Pot kit	4.9	\$65.95	\$59.35

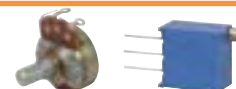
3/4-Watt 15 Turn Cermet Pot Kit

See page 68 (43P Series) for photos and specs.

Includes 100 pcs. (10 values) 3/4-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500 Ω	43P5k Ω	43P500k Ω	43P1k Ω	43P50k Ω
43P2k Ω	43P20k Ω	43P1M Ω	43P10k Ω	43P100k Ω
Part No.	Description	Wt. (lbs.)	1	10
85041CC	100 pcs. 15 turn Pot kit	4.9	\$82.95	\$74.65

See pages 66-70 for individually sold potentiometers.





135394CC - Electrolytic



135271CC - LEDs



169578CC - Photocells



18294CC - Toy Motors



149649CC - Fans



55968CC - Spacers



319599CC - Cabinet

* "LB" grab bag quantities are approximate • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319599CC

Shaded in orange on this page you will find Jameco's nine most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213CC) referenced towards the bottom of the page.

Capacitors

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17857CC	GB100	200 asst. ceramic disc capacitors	0.2	\$4.95	\$4.49
135335CC	GB100LB*	1 lb. (813 pcs) asst. ceramic disc caps.	1.0	12.95	11.49
17881CC	GB101	100 assorted mylar capacitors	0.3	5.95	5.35
135458CC	GB101LB*	1 lb. (440 pcs) asst. mylar capacitors	1.0	14.95	13.49
17911CC	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5	4.95	4.49
135394CC	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic caps. radial, axial, snap (photo above)	1.5	12.95	11.49
17945CC	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1	9.95	8.95

Diodes, Transistors and Crystals/Oscillators

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
17961CC	GB107	200 assorted diodes (zener, switching, silicon)	0.1	\$5.95	\$5.35	\$4.79
18171CC	GB127	100 assorted transistors (NPN, PNP, power)	0.1	5.95	5.35	4.79
114446CC	GB150	50 assorted crystals/oscillators	0.2	7.95	6.95	6.25

Trimmer and Single-Turn Potentiometers

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18075CC	GB113	100 asst. 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1	\$6.95	\$6.25
18278CC	GB174	100 assorted 1/4W & 1/2W single turn pots (100Ω to 5MΩ assorted values)	0.2	6.95	6.25
135407CC	GB174LB*	1 lb. (295 pcs) 1/4W & 1/2W single turn pots (100Ω to 5MΩ assorted values)	1.0	15.95	14.39

Integrated Circuits and Sockets

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17996CC	GB108	100 assorted 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	0.2	\$6.95	\$6.25
135280CC	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0	16.95	14.95
18024CC	GB109	100 asst. linear series (LM300, 500, 700, 7800, 7900 reg.) DIP, TO-3, TO-220	0.6	7.95	6.95
145242CC	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 reg.)	2.0	16.95	14.95
114964CC	GB171	100 asst. microprocessor series (micros, PALS, RAMS, PROMS, EPROMs)	0.7	12.95	11.49
105620CC	GB120	100 asst. sockets (DIP IC, PGA)	0.3	5.95	5.35
135386CC	GB120LB*	1 lb. (260 pcs) assorted sockets (DIP, PGA, SIMM, SIP, DIN)	1.0	12.95	11.49

LEDs and Displays

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
18041CC	GB110	100 assorted sizes & colored LEDs (T1&T1 ³ / ₄ round and rectangular)	0.1 ...	\$6.95	\$6.29	\$5.65
18323CC	GB186	500 asst. sizes #18041CC LEDs	0.3 ...	19.95	17.95	15.95
135271CC	GB110LB*	1 lb. (1900 pcs) asst. #18041CC LEDs	1.0 ...	44.95	40.95	38.95
18201CC	GB162	50 asst. sizes of colored displays (7-segment LED, modules, stick)	0.5	6.95	5.95	5.35

1/4W, 1/2W Resistors and Photocells

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18104CC	GB116	200 asst. 1/4W resistors (5&10%)	0.1 ...	\$5.49	\$4.95
135351CC	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0 ...	14.95	13.49
18139CC	GB117	200 asst. 1/2W resistors (5&10%)	0.2	5.95	5.35
169578CC	GB125	100 asst. values photocells	0.2 ...	12.95	11.49

Switches, Toy Motors and Fans

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18235CC	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4	\$8.75	\$7.69
135378CC	GB165LB*	1 lb. (135 pcs) asst. #18235CC switches	1.0	18.95	16.95
18294CC	GB182	5 asst. toy DC motors (1.5-24V)	1.1	5.49	4.95
149649CC	GB193	5 asst. AC&DC fans (photo above)	4.5	8.75	7.69

Hardware Assortments

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
171571CC	GB149*	1 lb. (500 pcs) asst. types of screws, nuts, washers & lock washers	1.0	\$5.95	\$5.35	\$4.79
171635CC	GB149LB*	3 lbs. (1400 pcs) asst. types; same as P/N 171571CC (above)	3.0	12.95	11.49	9.95

Spacers and Standoffs Assortments

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
166481CC	GB440	100 asst. 4-40 spacers/standoffs	0.5 ...	\$6.95	\$6.25	\$5.59
166490CC	GB632	100 asst. 6-32 spacers/standoffs	0.5	6.95	6.25	5.59
55968CC	GB140	100 asst. 4-40, 6-32, 8-32 round/ hex, alum/brass/nylon spacers	0.3	9.95	8.95	7.25
135423CC	GB140LB*	1 lb. (310 pcs) same as P/N 55968CC	1.0 ...	17.95	15.95	13.95

Schwab's School Selection

Jameco's nine most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319599CC photo above) for storage. **What's your suggestion?**

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213CC	GB197	Schwab's School Selection	3.3	\$39.95	\$34.95
319599CC	CAB20 NEW	20-drawer component cabinet	4.7	15.95	13.95

**\$59.89
Value**



Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242
for details today.

Visit our website to find more products
www.Jameco.com

1/4-Watt Carbon Film Resistors (±5%)



Single Resistor Value Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use 5-digit part number adjacent to ohms in chart below
Values may not be combined for quantity price breaks

Pricing (Sold in bags of 100 pieces)				
Specify Part No. & Resistor Value (see Standard Resistor Values Chart below)	1 Bag	10 Bags	50 Bags	100 Bags
	\$.99/bag	\$.57/bag	\$.49/bag	\$.46/bag

99¢/bag
100 piece bags

Assortment Pricing: 1/4-Watt Carbon Film Resistor (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Description (Including bulk pack values)	1	10	25
10719CC	5 ea. 70 values (every other value from 10Ω - 5.6 MΩ) (350 pcs.)	\$9.95	\$8.95	\$7.95
103165CC	10 ea. 24 values marked (●) and 50 ea. 6 values marked (★) (540 pcs.)	12.95	11.49	9.95
10663CC	100 ea. 27 values marked (▲) (2,700 pcs.)	24.95	22.49	20.49
10655CC	100 ea. 160 values (all resistor values in the chart below) (16,000 pcs.)	119.95	107.95	96.95
81832CC	1/4-watt resistor component cabinet kit – 30 values (540 pcs.), pg 62	27.95	24.95	22.49

Standard Resistor Values Chart

★▲ see above

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms		
30293CC	2.2	59192CC	15	29946CC	▲★	100	31499CC	▲●	680	31026CC	▲★	4.7k	30841CC	▲●	33k		
30349CC	2.4	30197CC	16	30040CC		110	31561CC		750	31237CC	▲●	5.1k	30912CC		36k		
30373CC	2.7	30234CC	18	30082CC		120	31624CC		820	31270CC	▲●	5.6k	30955CC		39k		
30621CC	3.0	30411CC	20	30120CC		130	31691CC		910	31405CC		6.2k	31077CC		43k		
30656CC	3.3	65736CC	22	30162CC	▲●	150	29663CC	▲★	1.0k	31430CC		6.8k	31149CC	▲●	47k		
30699CC	3.6	30541CC	24	59248CC		160	29719CC		1.1k	31536CC		7.5k	31309CC		51k		
30728CC	3.9	30584CC	27	59281CC		180	29735CC	●	1.2k	31595CC		8.2k	31350CC		56k		
30980CC	4.3	30752CC	30	59424CC		200	58931CC		1.3k	60353CC		9.1k	31456CC		62k		
59811CC	4.7	30824CC	33	30470CC	▲★	220	29760CC	▲●	1.5k	29911CC	▲★	10k	31481CC		68k		
31211CC	5.1	30904CC	36	30568CC		240	29786CC		1.6k	30031CC		11k	31552CC		75k		
31253CC	5.6	59723CC	39	30605CC	▲●	270	29807CC		1.8k	30074CC		12k	31616CC		82k		
31392CC	6.2	31069CC	43	30795CC		300	30277CC	▲●	2.0k	30111CC		13k	31683CC		91k		
31421CC	6.8	31106CC	▲●	47	30867CC	▲●	330	30314CC	▲●	2.2k	30146CC	▲●	15k	29997CC	▲★	100k	
31528CC	7.5	31296CC		51	30921CC		360	30357CC		2.4k	30200CC		16k	30058CC		110k	
31587CC	8.2	31341CC	56	30963CC	●	390	30390CC	▲●	2.7k	30242CC		18k	30091CC		120k		
31641CC	9.1	60089CC	62	31085CC		430	30630CC		3.0k	30429CC	●	20k	30138CC		130k		
29882CC	▲●	10	60134CC	68	31165CC	▲●	470	30672CC	▲●	3.3k	30453CC	▲●	22k	30171CC		150k	
59061CC	11	60222CC	75	31317CC		510	30701CC		3.6k	30550CC		24k	30226CC		160k		
30066CC	12	60302CC	82	31376CC		560	30736CC		3.9k	30592CC		27k	30269CC		180k		
30103CC	13	31675CC	91	31464CC		620	59782CC		4.3k	30779CC		30k	30437CC		200k		
														29751CC		1.3M	
															29938CC	▲●	10M

1/8-Watt Carbon Film Resistor (±5%) Assortments

• 1/8-W – \$12.95/k (bulk) • 1/2-W – \$15.95/k (bulk)

Part No.	Cross Ref. No.	Values included	Description (see chart below)	Pricing	
				1	10
108302CC	ASST1830	★	10 ea. of 24 values marked by ★ and 50 ea. of 6 values marked below by # (540 pcs.)	\$12.95	\$11.49
108290CC	ASST1827	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	29.95	26.95
108329CC	CAB182R	–	1/8-watt resistor component cabinet kit – 30 values (540 pcs.), see page 62	24.95	22.49

1/8 & 1/2-Watt Resistor Assortments Value Chart (Ohms)

10 ✓	150 ✓	330 ✓	680 ✓	2.0k ✓	3.3k ✓	5.6k ✓	15k ✓	33k ✓	470k ✓
47 ✓	220 ✓	390 ✓	1.0k ✓	2.2k ✓	4.7k ✓	6.8k ✓	22k ✓	47k ✓	1.0M ✓
100 ✓	270 ✓	470 ✓	1.5k ✓	2.7k ✓	5.1k ✓	10k ✓	27k ✓	100k ✓	10M ✓

(✓), (★), (#) symbols indicate Resistor values included in Assortments above and below.

1/2-Watt Carbon Film Resistor (±5%) Assortments

• 1/8-W – \$12.95/k (bulk) • 1/2-W – \$15.95/k (bulk)

Part No.	Cross Ref. No.	Values Included	Description (see chart above)	Pricing	
				1	10
107852CC	ASST1230	★	10 ea. of 24 values marked by ★ and 50 ea. of 6 values marked by # (540 pcs.)	\$14.95	\$13.49
107844CC	ASST1227	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	34.95	31.49
107836CC	ASST1270	–	5 ea. of 70 values (every other value from 10Ω - 5.6MΩ) (350 pcs.) (see chart above)	10.95	9.95
107879CC	CAB12R	–	1/2-watt resistor component cabinet kit – 30 values (540 pcs.), see page 62	29.95	26.95

We'll Send It Today!

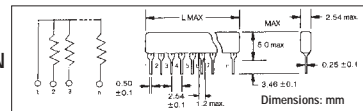
Over 99% of our products are in stock!
Just place your order by 6PM EST for same business day shipment.

Single-In-Line "SIP" Resistor Networks (±2%)

8 and 10-Pin Bussed (125mW/Resistor) ±2%

Features (8BRN/10BRN):

- 8-pin package (7 resistors) = 8BRN
- 10-pin package (9 resistors) = 10BRN
- Rated power per resistor at 70°C: 125mW/resistor
- Operating temperature range: -55°C to +125°C
- Resistance temperature coefficient: 200ppm/°C
- Max. working voltage: 100V or rated power x resistance, whichever is smaller
- Insulation resistance: 10,000MΩ min. at 100V
- Solderability: per MIL-R-83401
- Low profile 5mm (.200" body ht.)
- Low profile is compatible w/ DIPs
- Cermet thick film construction



Part No.	Pins	Ohms
97826CC	8	10k
97851CC	10	330
97869CC	10	470
97877CC	10	1.0k
97893CC	10	2.2k
24660CC	10	4.7k
24643CC	10	10k
98087CC	10	47k
98095CC	10	100k

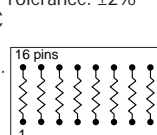
Pricing per each			
1	10	100	1000
\$.25	\$.19	\$.15	\$.12
Pricing for P/N 97826			
\$.24	\$.18	\$.14	\$.11

Dual-In-Line "DIP" Resistor Networks (±2%)

16-Pin Isolated (140mW/Resistor) ±2%

Features (161RN):

- Maximum operating voltage: 100V
- Temperature coefficient: ±100ppm/°C
- Operating temp.: -55°C to +125°C
- Insulation resistance: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation



Part No.	Ohms
164005CC	33
108556CC	100
108564CC	220
108572CC	330
108581CC	470
108599CC	1.0k
108610CC	4.7k
108628CC	10k
108644CC	100k

Pricing per each			
1	10	100	1000
\$.39	\$.35	\$.31	\$.29

SIP and DIP Resistor Network Cross Reference Chart

Jameco	CTS	A – B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN...	770-81-R...	708A...	4608X-101...	CSC08A01...	L08-1-R...	356CF... X2PD	9S08... GL002
10BRN...	770-101-R...	710A...	4610X-101...	CSC10A01...	L10-1-R...	256CX... X2PD	9S10... GL002
161RN...	761-3-R...	316B...	4116R-001...	MDP16-03...	898-3-R...	916C... X5SR	D16H... 12-J

6, 8, and 10-Pin Bussed Single-In-Line "SIP" Resistor Networks (±2%)

6-Pin Resistor Network, 4606X Series Value Equivalents

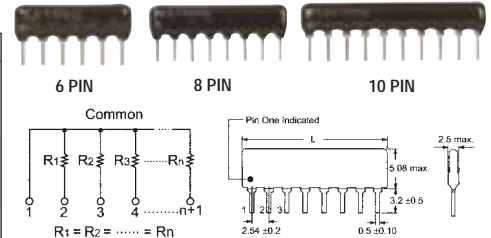
Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs
267098CC	4606X-101-100	10	267872CC	4606X-101-681	680	268082CC	4606X-101-223	22k
267670CC	4606X-101-220	22	267881CC	4606X-101-821	820	268091CC	4606X-101-273	27k
267688CC	4606X-101-270	27	267899CC	4606X-101-102	1.0k	268103CC	4606X-101-333	33k
267696CC	4606X-101-330	33	267901CC	4606X-101-122	1.2k	268111CC	4606X-101-393	39k
267709CC	4606X-101-390	39	267910CC	4606X-101-152	1.5k	268120CC	4606X-101-473	47k
267717CC	4606X-101-470	47	267928CC	4606X-101-182	1.8k	268138CC	4606X-101-563	56k
267725CC	4606X-101-510	51	267936CC	4606X-101-202	2.0k	268146CC	4606X-101-683	68k
267733CC	4606X-101-560	56	267944CC	4606X-101-222	2.2k	268154CC	4606X-101-823	82k
267741CC	4606X-101-680	68	267952CC	4606X-101-272	2.7k	268162CC	4606X-101-104	100k
267750CC	4606X-101-820	82	267961CC	4606X-101-332	3.3k	268171CC	4606X-101-124	120k
267768CC	4606X-101-101	100	267979CC	4606X-101-392	3.9k	268189CC	4606X-101-154	150k
267776CC	4606X-101-121	120	267987CC	4606X-101-472	4.7k	268197CC	4606X-101-184	180k
267784CC	4606X-101-151	150	267995CC	4606X-101-512	5.1k	268200CC	4606X-101-224	220k
267792CC	4606X-101-181	180	268007CC	4606X-101-562	5.6k	268218CC	4606X-101-274	270k
267805CC	4606X-101-221	220	268015CC	4606X-101-682	6.8k	268226CC	4606X-101-334	330k
267813CC	4606X-101-271	270	268023CC	4606X-101-822	8.2k	268234CC	4606X-101-394	390k
267821CC	4606X-101-331	330	268031CC	4606X-101-103	10k	268242CC	4606X-101-474	470k
267830CC	4606X-101-391	390	268040CC	4606X-101-123	12k	268251CC	4606X-101-564	560k
267848CC	4606X-101-471	470	268058CC	4606X-101-153	15k	268269CC	4606X-101-684	680k
267856CC	4606X-101-511	510	268066CC	4606X-101-183	18k	268277CC	4606X-101-824	820k
267864CC	4606X-101-561	560	268074CC	4606X-101-203	20k	268285CC	4606X-101-105	1.0M

8-Pin Resistor Network, 4608X Series Value Equivalents

Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs
267354CC	4608X-101-100	10	276066CC	4608X-101-681	680	276277CC	4608X-101-223	22k
275864CC	4608X-101-220	22	276074CC	4608X-101-821	820	276285CC	4608X-101-273	27k
275872CC	4608X-101-270	27	276082CC	4608X-101-102	1.0k	276293CC	4608X-101-333	33k
275881CC	4608X-101-330	33	276091CC	4608X-101-122	1.2k	276306CC	4608X-101-393	39k
275899CC	4608X-101-390	39	276103CC	4608X-101-152	1.5k	276314CC	4608X-101-473	47k
275901CC	4608X-101-470	47	276111CC	4608X-101-182	1.8k	276322CC	4608X-101-563	56k
275910CC	4608X-101-510	51	276120CC	4608X-101-202	2.0k	276331CC	4608X-101-683	68k
275928CC	4608X-101-560	56	276138CC	4608X-101-222	2.2k	276349CC	4608X-101-823	82k
275936CC	4608X-101-680	68	276146CC	4608X-101-272	2.7k	276357CC	4608X-101-104	100k
275944CC	4608X-101-820	82	276154CC	4608X-101-332	3.3k	276365CC	4608X-101-124	120k
275952CC	4608X-101-101	100	276162CC	4608X-101-392	3.9k	276373CC	4608X-101-154	150k
275961CC	4608X-101-121	120	276171CC	4608X-101-472	4.7k	276381CC	4608X-101-184	180k
275979CC	4608X-101-151	150	276189CC	4608X-101-512	5.1k	276390CC	4608X-101-224	220k
275987CC	4608X-101-181	180	276197CC	4608X-101-562	5.6k	276402CC	4608X-101-274	270k
275995CC	4608X-101-221	220	276200CC	4608X-101-682	6.8k	276411CC	4608X-101-334	330k
276007CC	4608X-101-271	270	276218CC	4608X-101-822	8.2k	276429CC	4608X-101-394	390k
276015CC	4608X-101-331	330	276226CC	4608X-101-103	10k	276437CC	4608X-101-474	470k
276023CC	4608X-101-391	390	276234CC	4608X-101-123	12k	276445CC	4608X-101-564	560k
276031CC	4608X-101-471	470	276242CC	4608X-101-153	15k	276453CC	4608X-101-684	680k
276040CC	4608X-101-511	510	276251CC	4608X-101-183	18k	276461CC	4608X-101-824	820k
276058CC	4608X-101-561	560	276269CC	4608X-101-203	20k	276470CC	4608X-101-105	1.0M

10-Pin Resistor Network, 4610X Series Value Equivalents

Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs	Part No.	Mfr. Cross Ref.	OHMs
267418CC	4610X-101-100	10	280786CC	4610X-101-681	680	280997CC	4610X-101-223	22k
280583CC	4610X-101-220	22	280794CC	4610X-101-821	820	281009CC	4610X-101-273	27k
280591CC	4610X-101-270	27	280807CC	4610X-101-102	1.0k	281017CC	4610X-101-333	33k
280604CC	4610X-101-330	33	280815CC	4610X-101-122	1.2k	281025CC	4610X-101-393	39k
280612CC	4610X-101-390	39	280823CC	4610X-101-152	1.5k	281033CC	4610X-101-473	47k
280621CC	4610X-101-470	47	280831CC	4610X-101-182	1.8k	281041CC	4610X-101-563	56k
280639CC	4610X-101-510	51	280840CC	4610X-101-202	2.0k	281050CC	4610X-101-683	68k
280647CC	4610X-101-560	56	280858CC	4610X-101-222	2.2k	281068CC	4610X-101-823	82k
280655CC	4610X-101-680	68	280866CC	4610X-101-272	2.7k	281076CC	4610X-101-104	100k
280663CC	4610X-101-820	82	280874CC	4610X-101-332	3.3k	281084CC	4610X-101-124	120k
280671CC	4610X-101-101	100	280882CC	4610X-101-392	3.9k	281092CC	4610X-101-154	150k
280680CC	4610X-101-121	120	280891CC	4610X-101-472	4.7k	281105CC	4610X-101-184	180k
280698CC	4610X-101-151	150	280903CC	4610X-101-512	5.1k	281113CC	4610X-101-224	220k
280701CC	4610X-101-181	180	280911CC	4610X-101-562	5.6k	281121CC	4610X-101-274	270k
280719CC	4610X-101-221	220	280920CC	4610X-101-682	6.8k	281130CC	4610X-101-334	330k
280727CC	4610X-101-271	270	280938CC	4610X-101-822	8.2k	281148CC	4610X-101-394	390k
280735CC	4610X-101-331	330	280946CC	4610X-101-103	10k	281156CC	4610X-101-474	470k
280743CC	4610X-101-391	390	280954CC	4610X-101-123	12k	281164CC	4610X-101-564	560k
280751CC	4610X-101-471	470	280962CC	4610X-101-153	15k	281172CC	4610X-101-684	680k
280760CC	4610X-101-511	510	280971CC	4610X-101-183	18k	281181CC	4610X-101-824	820k
280778CC	4610X-101-561	560	280989CC	4610X-101-203	20k	281199CC	4610X-101-105	1.0M



- Miniature, high density packaging
- Operating temperature range: -55°C to +125°C
- Temperature coefficient range: ±100ppm/°C: 50Ω – 1.0MΩ; ±250ppm/°C: <50Ω or >1.0M
- Rating ambient temperature: +70°C
- Wattage/element: 1/8 Watt
- Max. working voltage: 100V
- Prepackaged: order in increments of 10, 100, 500 or 1000

6-Pin Resistor Network Pricing

Qty.	10	100	500	1000
Price	\$.14	\$.085	\$.076	\$.071

8-Pin Resistor Network Pricing

Qty.	10	100	500	1000
Price	\$.19	\$.122	\$.114	\$.105

10-Pin Resistor Network Pricing

Qty.	10	100	500	1000
Price	\$.23	\$.16	\$.14	\$.13

0805 Resistor Assortment (±5%)
144 Values, 50 pcs. each; 7,200 Pieces Total

Resistance Value Chart:

1.2	10	75	430	2.0k	10k	51k	270k	2.2M
1.6	16	85	470	2.2k	11k	56k	300k	2.4M
2.2	18	91	510	2.4k	12k	62k	360k	2.7M
2.4	20	110	560	2.7k	13k	68k	390k	3.0M
2.7	22	120	620	3.0k	15k	75k	430k	3.3M
3.0	24	130	680	3.3k	16k	82k	470k	3.6M
3.3	27	150	750	3.6k	18k	91k	510k	3.9M
3.6	30	160	820	3.9k	20k	100k	560k	4.3M
4.0	33	180	910	4.3k	22k	110k	620k	4.7M
4.3	36	200	1.0k	4.7k	24k	120k	750k	5.1M
4.7	40	220	1.1k	5.1k	27k	150k	820k	5.6M
5.1	43	240	1.2k	5.6k	30k	160k	910k	6.8M
5.6	47	270	1.3k	6.2k	33k	180k	1.0M	7.5M
6.2	51	300	1.5k	6.8k	36k	200k	1.1M	8.2M
6.8	56	330	1.6k	7.5k	39k	220k	1.2M	9.1M
7.5	62	360	1.8k	8.2k	43k	240k	2.0M	10M
8.2	68	390	2.0k	9.1k	47k	270k	2.2M	11M

- Size (mm): 3.0 x 1.25W x 0.5Thick
- Max. overload voltage: 200V
- 1/8 watts
- Operating temperature: -50°C to 120°C
- Case size (two cases): 10.5"L x 6.7"W x 1.7"H
- Weight: 1.9 lbs.

Includes: Case with labels

Part No.	Mfr. Cross Ref. No.	1	10	25
172806CC	16-500	\$79.95	\$71.95	\$64.79

1206 Resistor Assortment (±1%)
56 Values, 200 pcs. each; 11,200 pcs. Total

Value Chart (Ohms)

10	200	3.92k	75k
12.1	243	4.99k	90.9k
15	301	6.19k	100k
20	392	7.5k	121k
24.3	499	9.09k	150k
30.1	619	10k	200k
39.2	750	12.1k	243k
49.9	909	15k	301k
61.9	1k	20k	392k
75	1.21k	24.3k	499k
90.9	1.5k	30.1k	619k
100	2k	39.2k	750k
121	2.43k	49.9k	909k
150	3.01k	61.9k	1M

- Max. working voltage: 200V
- Power: 1/8W
- Operating temperature: -55°C to +125°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H

Part No.	Mfr. Cross Ref. No.	1	10	25
156881CC	SMR1206SB	\$99.99	\$89.99	\$79.99

Potentiometers – 24mm Linear and Audio Taper

Color Code Legend
New Sale Qty. Save



1/2-Watt Linear Taper (±10%)

- Temperature range: -55°C to +125°C
- Non-rotational key
- Non-slotted shaft end
- Mounting hole: 0.3125"
- Shaft diameter: 0.25"
- Shaft length: 0.50"
- Maximum panel thickness: 0.1875"



29081CC

Includes: Mounting hardware

Qty.	1	10	100	500
Price	\$.99	\$.79	\$.65	\$.55

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
29049CC	P1K	1k	29102CC	P100K	100k
29196CC	P5K	5k	29065CC	P1MEG	1M
29081CC	P10K	10k			



RV4N Style 2-Watt Linear Taper (±10%)

- Shaft diameter: 0.25"
- Shaft length: 0.875"
- 2W @ 70°C ambient
- Conductive plastic element
- Temp. range: -55°C to +120°C
- Non-rotational key
- Mounting hole: 0.375"
- Maximum panel thickness: 0.25"



95417CC

Includes: Mounting hardware

Qty.	1	10	25	50
Price	\$7.39	\$6.54	\$5.45	\$4.51

Part No.	Product No.	Military No.	Ohms
241550CC	53C3-50	RV4NAYSD500A	50
241568CC	53C3-100	RV4NAYSD101A	100
241576CC	53C3-150	RV4NAYSD151A	150
241584CC	53C3-250	RV4NAYSD251A	250
241592CC	53C3-350	RV4NAYSD351A	350
183610CC	53C3-500	RV4NAYSD501A	500
13936CC	53C3-1k	RV4NAYSD102A	1k
241605CC	53C3-1.5k	RV4NAYSD152A	1.5k
241613CC	53C3-2k	RV4NAYSD202A	2k
241621CC	53C3-2.5k	RV4NAYSD252A	2.5k
241630CC	53C3-3.5k	RV4NAYSD352A	3.5k
13995CC	53C3-5k	RV4NAYSD502A	5k
13952CC	53C3-10k	RV4NAYSD103A	10k
241648CC	53C3-15k	RV4NAYSD153A	15k
241656CC	53C3-20k	RV4NAYSD203A	20k
241664CC	53C3-25k	RV4NAYSD253A	25k
95417CC	53C3-50k	RV4NAYSD503A	50k
13979CC	53C3-100k	RV4NAYSD104A	100k
241672CC	53C3-150k	RV4NAYSD154A	150k
241681CC	53C3-250k	RV4NAYSD254A	250k
241699CC	53C3-350k	RV4NAYSD354A	350k
241701CC	53C3-500k	RV4NAYSD504A	500k
241710CC	53C3-750k	RV4NAYSD754A	750k
241728CC	53C3-1Meg	RV4NAYSD105A	1M
241736CC	53C3-2Meg	RV4NAYSD205A	2M
286942CC	53C3-3Meg	RV4NAYSD305A	3M



1/2-Watt 24mm Linear Taper (±20%)



255476CC



255610CC



264372CC

- Maximum voltage: 500V
- Rotational angle: 300° (±5°)
- Withstanding voltage for 1 minute: 500VAC

0.335"L shaft; solder lugs

Qty.	1	10	100	500
Price	\$1.19	\$.91	\$.83	\$.76

Part No.	Product No.	Ohms
255476CC	RV24A-10-15R1-B500	500
255484CC	RV24A-10-15R1-B1K	1k
255492CC	RV24A-10-15R1-B2K	2k
255505CC	RV21A-10-15R1-B2.5K	2.5k
255513CC	RV24A-10-15R1-B5K	5k
255521CC	RV24A-10-15R1-B10K	10k
255530CC	RV24A-10-15R1-B25K	25k
255548CC	RV24A-10-15R1-B50K	50k
255556CC	RV24A-10-15R1-B100K	100k
255564CC	RV24A-10-15R1-B250K	250k
255572CC	RV24A-10-15R1-B500K	500k
255581CC	RV24A-10-15R1-B1M	1M
255599CC	RV24A-10-15R1-B2M	2M
255601CC	RV24A-10-15R1-B5M	5M

0.531"L knurled shaft; solder lugs

Qty.	1	10	100	500
Price	\$1.19	\$.91	\$.83	\$.76

Part No.	Product No.	Ohms
264372CC	RV24A-10-20K-B500	500
264381CC	RV24A-10-20K-B1K	1k
264399CC	RV24A-10-20K-B2K	2k
264401CC	RV24A-10-20K-B5K	5k
264410CC	RV24A-10-20K-B10K	10k
264428CC	RV24A-10-20K-B50K	50k
264436CC	RV24A-10-20K-B100K	100k
264444CC	RV24A-10-20K-B250K	250k
264452CC	RV24A-10-20K-B500K	500k
264461CC	RV24A-10-20K-B1M	1M
264479CC	RV24A-10-20K-B2M	2M

1.32"L shaft; solder lugs

Qty.	1	10	100	500
Price	\$1.13	\$.95	\$.86	\$.79

Part No.	Product No.	Ohms
255610CC	RV24A-10-40R1-B500	500
255628CC	RV24A-10-40R1-B1K	1k
255636CC	RV24A-10-40R1-B2K	2k
255644CC	RV24A-10-40R1-B2.5K	2.5k
255652CC	RV24A-10-40R1-B5K	5k
255661CC	RV24A-10-40R1-B10K	10k
255679CC	RV24A-10-40R1-B25K	25k
255687CC	RV24A-10-40R1-B50K	50k
255695CC	RV24A-10-40R1-B100K	100k
255708CC	RV24A-10-40R1-B250K	250k
255716CC	RV24A-10-40R1-B500K	500k
255724CC	RV24A-10-40R1-B1M	1M
255732CC	RV24A-10-40R1-B5M	5M



1/2-Watt 24mm Linear Taper with SPST Switch (±20%)

- Shaft length: 0.335"
- Shaft diameter: .250"
- Terminal type: solder lugs
- Maximum voltage: 500V
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



263759CC

Qty.	1	10	100	500
Price	\$1.59	\$1.36	\$1.24	\$1.13

Part No.	Product No.	Ohms
263759CC	RV24A01-10-15R1-B500	500
263767CC	RV24A01-10-15R1-B1K	1k
263775CC	RV24A01-10-15R1-B2.5K	2.5k
263783CC	RV24A01-10-15R1-B5K	5k
263791CC	RV24A01-10-15R1-B10K	10k
263804CC	RV24A01-10-15R1-B25K	25k
263812CC	RV24A01-10-15R1-B50K	50k
263821CC	RV24A01-10-15R1-B100K	100k
263839CC	RV24A01-10-15R1-B250K	250k
263847CC	RV24A01-10-15R1-B500K	500k
263855CC	RV24A01-10-15R1-B1M	1M



1/4-Watt 24mm Audio Taper (±20%)

- Shaft length: 0.335"
- Maximum voltage: 250V
- Shaft diameter: .250"
- Terminal type: solder lugs
- Insulation resistance: >100MΩ @ 500VDC
- Rotational angle: 300° (±5°)



255396CC

Qty.	1	10	100	500
Price	\$1.19	\$.91	\$.83	\$.76

Part No.	Product No.	Ohms
255396CC	RV24A-10-15R1-A1K	1k
255417CC	RV24A-10-15R1-A5K	5k
255425CC	RV24A-10-15R1-A10K	10k
255433CC	RV24A-10-15R1-A50K	50k
255441CC	RV24A-10-15R1-A100K	100k
255450CC	RV24A-10-15R1-A500K	500k
255468CC	RV24A-10-15R1-A1M	1M



1/4-Watt 24mm Audio Taper with SPST Switch (±20%)

- Shaft length: 0.590"
- Voltage rating: 250V
- Shaft diameter: .250"
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



263601CC

Qty.	1	10	100	500
Price	\$1.59	\$1.36	\$1.24	\$1.13

Part No.	Product No.	Ohms
263601CC	RV24A01-10-15R1-A1K	1k
263610CC	RV24A01-10-15R1-A5K	5k
263636CC	RV24A01-10-15R1-A10K	10k
263644CC	RV24A01-10-15R1-A50K	50k
263652CC	RV24A01-10-15R1-A100K	100k
263661CC	RV24A01-10-15R1-A500K	500k
263679CC	RV24A01-10-15R1-A1M	1M

For Instrumentation
Knobs see page 133.



Corporate Customers

Even lower OEM pricing
for larger orders!
Call today! 1-800-831-4242



1/5-Watt 16mm Linear Taper (±20%)

- Shaft Length: 0.335"L
- Rated voltage: 200V
- Shaft diameter: .250"
- Total rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Center detent
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



Qty.	1	10	100	500
Price	\$1.35	\$1.13	\$1.04	\$0.94

Part No.	Product No.	Ohms
286352CC	RV16A-10-15R1-B1K-OC	1k
286361CC	RV16A-10-15R1-B2K-OC	2k
286379CC	RV16A-10-15R1-B5K-OC	5k
286387CC	RV16A-10-15R1-B10K-OC	10k
286395CC	RV16A-10-15R1-B25K-OC	25k
286408CC	RV16A-10-15R1-B50K-OC	50k
286416CC	RV16A-10-15R1-B100K-OC	100k
286424CC	RV16A-10-15R1-B250K-OC	250k
286432CC	RV16A-10-15R1-B500K-OC	500k
286441CC	RV16A-10-15R1-B1M-OC	1M



1/5-Watt 16mm Linear Taper (±20%)

- Shaft Length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @ 500VDC
- 11-detent position
- Withstanding voltage: 500VAC, 1 minute



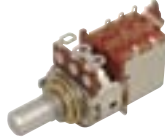
Qty.	1	10	100	500
Price	\$1.65	\$1.38	\$1.25	\$1.13

Part No.	Product No.	Ohms
286459CC	RV16A-10-15R1-B1K-OD	1k
286467CC	RV16A-10-15R1-B2K-OD	2k
286475CC	RV16A-10-15R1-B5K-OD	5k
286483CC	RV16A-10-15R1-B10K-OD	10k
286491CC	RV16A-10-15R1-B25K-OD	25k
286504CC	RV16A-10-15R1-B50K-OD	50k
286512CC	RV16A-10-15R1-B100K-OD	100k
286521CC	RV16A-10-15R1-B250K-OD	250k
286539CC	RV16A-10-15R1-B500K-OD	500k
286547CC	RV16A-10-15R1-B1M-OD	1M



1/5-Watt 16mm Linear Taper with DPDT Switch (±20%)

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Terminal type: solder lugs
- Switch rating: 0.3A; 30VDC
- Rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Dielectric strength: 500VAC for 1 minute



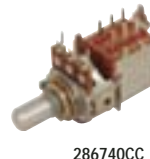
Qty.	1	10	100	500
Price	\$3.55	\$2.96	\$2.70	\$2.45

Part No.	Product No.	Ohms
286600CC	RV16B-10-15R1-B1K	1k
286678CC	RV16B-10-15R1-B5K	5k
286686CC	RV16B-10-15R1-B10K	10k
286694CC	RV16B-10-15R1-B50K	50k
286707CC	RV16B-10-15R1-B100K	100k



1/5-Watt 16mm Linear Taper with DPDT Switch (±20%)

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Terminal type: PC terminals (horizontal)
- Switch rating: 0.3A; 30VDC
- Rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Dielectric strength: 500VAC for 1 minute



Qty.	1	10	100	500
Price	\$3.55	\$2.96	\$2.70	\$2.45

Part No.	Product No.	Ohms
286731CC	RV16B-20-15R1-B10K	10k
286740CC	RV16B-20-15R1-B50K	50K
286758CC	RV16B-20-15R1-B100K	100k



1/5-Watt 16mm Linear Taper (±20%)

- Shaft Length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Rotation angle: 300° (±5°)
- Rotational life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



Qty.	1	10	100	500
Price	\$1.15	\$1.00	\$0.87	\$0.80

Part No.	Product No.	Ohms
286248CC	RV16A-10-15R1-B1K	1k
286256CC	RV16A-10-15R1-B2K	2k
286264CC	RV16A-10-15R1-B5K	5k
286272CC	RV16A-10-15R1-B10K	10k
286281CC	RV16A-10-15R1-B25K	25k
286299CC	RV16A-10-15R1-B50K	50k
286301CC	RV16A-10-15R1-B100K	100k
286310CC	RV16A-10-15R1-B250K	250k
286328CC	RV16A-10-15R1-B500K	500k
286336CC	RV16A-10-15R1-B1M	1M
286344CC	RV16A-10-15R1-B1.2M	1.2M



1/5-Watt 16mm Linear Taper with SPST Switch (±20%)

- Shaft Length: 0.374"
- Rated voltage: 200V
- Shaft diameter: .250"
- Terminal type: PC terminal (vertical; back)
- Total rotation angle: 270° (±5°)
- Rotation life: 100,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Switch contact resistance: <100mΩ
- Switch rating: 250VAC 10A



Qty.	1	10	100	500
Price	\$2.25	\$1.90	\$1.73	\$1.57

Part No.	Product No.	Ohms
286766CC	RV16C-40-16F1-B5K	5k
286774CC	RV16C-40-16F1-B10K	10k
286782CC	RV16C-40-16F1-B50K	50k
286791CC	RV16C-40-16F1-B500K	500k



1/8-Watt 16mm Linear Taper

- Shaft length: 0.531"
- Rated voltage: 200V
- Shaft diameter: .250"
- Rotational angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance: >100MΩ @ 500VDC
- Tolerance: <1MΩ (±20%); ≥1MΩ (±30%)
- Dielectric strength: 500VAC for 1 minute



Qty.	1	10	100	500
Price	\$1.19	\$1.00	\$0.83	\$0.70

Part No.	Product No.	Ohms
286061CC	RV16A-10-20R1-B1K	1k
286184CC	RV16A-10-20R1-B2K	2k
286192CC	RV16A-10-20R1-B5K	5k
286205CC	RV16A-10-20R1-B10K	10k
286213CC	RV16A-10-20R1-B50K	50k
286854CC	RV16A-10-20R1-B100K	100k
286221CC	RV16A-10-20R1-B500K	500k
286230CC	RV16A-10-20R1-B1M	1M



1/8-Watt 16mm Linear Taper with SPST Switch (±20%)

- Shaft Length: 0.335"
- Shaft diameter: .250"
- Terminal type: solder lugs double row
- Rated voltage: 200V
- Total rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute
- Switch contact resistance: 20mΩ
- Switch rating: 12VDC/1A



Qty.	1	10	100	500
Price	\$1.95	\$1.62	\$1.47	\$1.34

Part No.	Product No.	Ohms
286598CC	RV16A03-10-15R1-B1K	1k
286601CC	RV16A03-10-15R1-B5K	5k
286619CC	RV16A03-10-15R1-B10K	10k
286627CC	RV16A03-10-15R1-B50K	50k
286635CC	RV16A03-10-15R1-B100K	100k
286643CC	RV16A03-10-15R1-B500K	500k
286651CC	RV16A03-10-15R1-B1M	1M



1/10-Watt 16mm Audio Taper (±20%)

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: .250"
- Rotational angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute
- 11-detent positions



Qty.	1	10	100	500
Price	\$1.65	\$1.38	\$1.25	\$1.13

Part No.	Product No.	Ohms
286555CC	RV16A-10-15R1-A10K-OD	10k
286563CC	RV16A-10-15R1-A50K-OD	50k
286571CC	RV16A-10-15R1-A100K-OD	100k
286580CC	RV16A-10-15R1-A1M-OD	1M

Sale items highlighted in yellow. Great quantity discounts highlighted in green.

Potentiometers – Linear Taper, Linear, Cermet and Trimming

Color Code Legend
New Sale Qty. Save

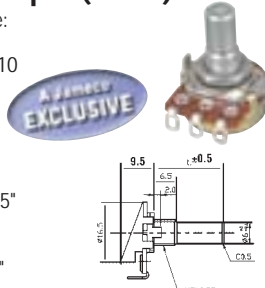


1/5-Watt 16mm Linear Taper (±20%)

- Insulation resistance: 100MΩ @ 500VDC
- Number of detents: 10
- Maximum panel thickness: 0.15"
- Shaft length: 0.605"
- Maximum operating voltage: 150VAC
- Shaft diameter: 0.235"
- Rotational life: 15,000 cycles
- Mounting hole: 0.27"

Includes: Mounting hardware

Part No.	Mfr.	Cross Ref.	Ohms	1	10	100	500
163563CC	PMD401	10k	\$1.65	\$1.49	\$1.35	\$1.09	



5-Watt Linear Taper Wire Wound (±20%)

- Temp. range: -10°C to 70°C
- Shaft diameter: 0.23" (6mm)
- Shaft length: 0.67", except P/N 140521CC (0.25")
- Non-rotational key
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"

Includes: Mounting hardware

Part No.	Mfr.	Cross Ref.	Ohms	1	10	50	100
140513CC	PW5B100	100	\$2.79	\$2.35	\$2.25	\$2.10	
140521CC	PW5B500	500	2.79	2.35	2.25	2.10	



2-Watt Linear Taper Wire Wound (10-turn)

- Resistance tolerance: ±10%
- 10-turn; wirewound
- Load life: 1000 hours, 2W
- Insulation resistance: (500VDC) 1000MΩ minimum
- Absolute minimum resistance: 1Ω or 0.1% maximum

Part No.	Product No.	Ohms	1	10	50
183548CC	3540S-1-502	5k	\$12.79	\$12.35	\$11.89
183521CC	3540S-1-103	10k	12.79	12.35	11.89



2-Watt Linear Taper Wire Wound (±20%)

- Temp. range: -10°C to +70°C
- Shaft diameter: 0.25"
- Mounting hole: 0.375"
- Non-rotational key
- Length: 0.825"
- Base length: 0.25"

Includes: Mounting hardware

Part No.	Mfr.	Cross Ref.	Ohms	1	10	100	500
123959CC	PT1K	1k	\$3.29	\$2.99	\$2.65	\$2.39	
123967CC	PT5K	5k	3.29	2.99	2.65	2.39	

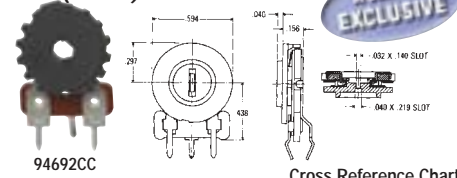


For Potentiometer Component Kits
See page 62.



1/4-Watt Miniature Linear (±20%)

X201 (19/32") Vertical Mount



- 15mm thick
- Power rating: below 5kΩ – 1/4 watt @ 40°C, 5kΩ & above – 1/4 watt @ 55°C
- Total rotation: 260° ±5°
- Voltage rating: 350 VDC

Qty.	1	10	100	500
Price	\$0.45	\$0.39	\$0.35	\$0.29

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
94692CC	X201R1K	1k	172136CC	X201R25K	25k
35502CC	X201R252B	2.5k	94721CC	X201R50K	50k
94705CC	X201R5K	5k	94730CC	X201R100K	100k
94713CC	X201R10K	10k			

Part No.	Mfr.	Cross Ref.	Ohms	1	10	100
313664CC	X201R50K	50k	\$0.32	\$0.256	\$0.238	

1/2-Watt Trimming Potentiometers (±10%)

3362P Series

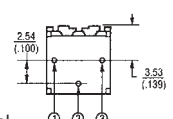
- Linear taper
- Insulation resistance: 500VDC 1,000MΩ minimum
- Absolute minimum resistance: 1% or 2Ω maximum
- Contact resistance variation: 1% or 3Ω maximum
- Rotational life: 200 cycles
- Terminals: solderable pins
- Top adjustment: 240° nominal
- Wiper positioning: 50% nominal

Qty.	1	10	100	500
Price	\$0.69	\$0.62	\$0.47	\$0.42

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
191644CC	3362P-200	20	182836CC	3362P-103	10k
189341CC	3362P-500	50	182844CC	3362P-204	200k
182810CC	3362P-501	500	182852CC	3362P-105	1M
182828CC	3362P-502	5k			

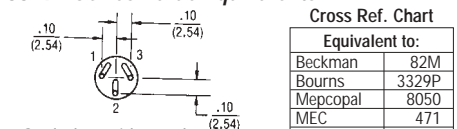


Equivalent to:
Bourns 3362P
Copal CT-6P
Murata PVC6
Vishay 76



1/2-Watt, 1/4" Round, Cermet (±10%)

3329P Series Value Equivalents



- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C
- T0-5 grid
- Top adjustment
- Terminals: solderable pins

Qty.	1	10	100	500
Price	\$1.89	\$1.59	\$1.29	\$1.19

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
95441CC	3329P-102	1k	96719CC	3329P-103	10k
95450CC	3329P-502	5k	95484CC	3329P-104	100k

Equivalent to:
Beckman 82M
Bourns 3329P
Mecopac 8050
MEC 471
Murata 3321P
Spectrol 62-3
VRN 171
Weston 567



1/2-Watt, 3/8" Square, Single-Turn Cermet (±10%)

- Top adjustment
- 1/2 watt linear taper @ 70°C
- PC pins: .100" grid (2.54mm)
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants
- Pin spacing: 0.1"

(† P/N 43060CC & P/N 105216CC: 0.2")

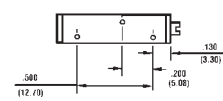


Cross Ref. Chart	
Equivalent to:	
Allen Bradley	E2B
Beckman	72PR
Bourns	3386P
Mecopac	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P

Quantity **SAVE**

Part No.	Mfr.	Cross Ref. No.	Ohms	1	10	100	500
43123CC	63P500	500	\$.85	\$.79	\$.69	\$.49	
42964CC	63P1K	1k	.85	.76	.61	.46	
43043CC	63P2K	2k	.85	.76	.61	.46	
43078CC	63P5K	5k	.85	.79	.69	.49	
43001CC	63P10K	10k	.85	.79	.69	.49	
43051CC	63P20K	20k	.85	.76	.61	.46	
43107CC	63P50K	50k	.85	.79	.69	.49	
43027CC	63P100K	100k	.85	.79	.69	.49	
43060CC	63P300K	300k	.85	.76	.61	.46	
63212CC	63P500K	500k	.85	.79	.69	.49	
42981CC	63P1MEG	1M	.85	.79	.69	.49	
105216CC	63P2MEG	2M	.85	.76	.61	.46	

3/4-Watt, 3/4" Rectangular 15-Turn Linear Cermet (±10%)



Cross Ref. Chart	
Equivalent to:	
Allen Bradley	94P
Beckman	89PR
Bourns	3006P
Litton	6034Y
Mecopac	8034
Murata	2101P
Spectrol	43P
VRN	961-20
Weston	830P

- PC pins: .100" grid (2.54mm)
- Side adjustment
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants

Qty.	1	10	100	500
Price	\$1.05	\$0.99	\$0.89	\$0.75

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
181972CC	43P201	200	41873CC	43P20K	20k
41937CC	43P500	500	41911CC	43P50K	50k
41785CC	43P1K	1k	41849CC	43P100K	100k
41865CC	43P2K	2k	63001CC	43P200K	200k
41890CC	43P5K	5k	41953CC	43P500K	500k
41822CC	43P10K	10k	41806CC	43P1MEG	1M

Phone
1-800-831-4242
Fax
1-800-237-6948
Online
www.Jameco.com

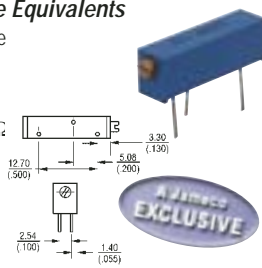


Order Anytime 24x7x365

3/4-Watt, 3/4" Rectangular, 15-Turn Cermet Potentiometer Side Adjustment ($\pm 10\%$)

3006P Series Value Equivalents

- Low PC board profile
- Temperature range:
-55°C to 125°C
- Absolute minimum
resistance: 1% or 2 Ω
- Contact resistance
variation: 1% or
1 Ω maximum
- Power rating:
0.75W @ 70°C
(400V maximum)



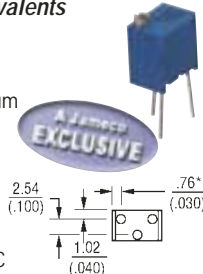
Qty.	1	10	50	100
Price	\$1.25	\$1.15	\$.99	\$.89

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
241234CC	3006P-101	100	241314CC	3006P-253	25k
241242CC	3006P-201	200	241322CC	3006P-503	50k
241251CC	3006P-501	500	241331CC	3006P-104	100k
241269CC	3006P-102	1k	241349CC	3006P-204	200k
241277CC	3006P-202	2k	241357CC	3006P-254	250k
241285CC	3006P-502	5k	241365CC	3006P-504	500k
241293CC	3006P-103	10k	241373CC	3006P-105	1M
241306CC	3006P-203	20k			

1/4-Watt, 1/4" Square Trimming Potentiometers, Top Adjustment ($\pm 10\%$)

3266W Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- 12-turns nominal
- Insulation resistance:
(500VDC) 1,000M Ω minimum
- Contact resistance variation:
3% or 3 Ω maximum
(whichever is greater)
- Absolute min. resistance:
1% or 2 Ω maximum
(whichever is greater)
- Power rating: 0.25W @ 70°C
(300V maximum)



Qty.	1	10	50	100
Price	\$2.29	\$1.99	\$1.93	\$1.83

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
254609CC	3266W-500	50	254684CC	3266W-203	20k
254617CC	3266W-101	100	254692CC	3266W-253	25k
254625CC	3266W-201	200	254705CC	3266W-503	50k
254633CC	3266W-501	500	254713CC	3266W-104	100k
254641CC	3266W-102	1k	254721CC	3266W-204	200k
254650CC	3266W-202	2k	254730CC	3266W-504	500k
254668CC	3266W-502	5k	254748CC	3266W-105	1M
254676CC	3266W-103	10k			

For Digital
Potentiometers
see page 39.

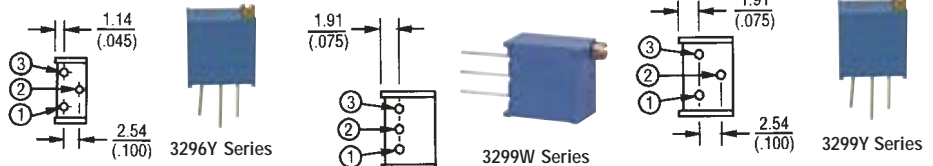


**30-Day Money-Back
Guarantee**

Details on page 246.

Potentiometers – Multi-Turn Trimming

1/2-Watt, 3/8" Square, Multi-Turn Trimming Potentiometers, Top Adjustment ($\pm 10\%$)



3296Y, 3299W, and 3299Y Series

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1000M Ω min.
- Absolute minimum resistance: 1% or 2 Ω max.

- 25-turns nominal
- Contact resistance variation: 1% or 3 Ω max.
- Power rating: 0.5W @ 70°C (300V max.)

Attention Budget-Minded Buyers!

Jameco now offers high-quality Bourns® equivalents below, and they're priced to save you money. You'll get consistent form, fit and function, without paying the added surcharge for brand name components.

JAMECO ValuePro 3296Y – Y Layout Solder Pins

Qty.	1	10	50	100
Price	\$1.89	\$1.69	\$1.49	\$1.35

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
240696CC	3296Y-100	10	240784CC	3296Y-103	10k
240709CC	3296Y-200	20	240792CC	3296Y-203	20k
240717CC	3296Y-500	50	240805CC	3296Y-253	25k
240725CC	3296Y-101	100	240813CC	3296Y-503	50k
240733CC	3296Y-201	200	240821CC	3296Y-104	100k
240741CC	3296Y-501	500	240830CC	3296Y-254	250k
240750CC	3296Y-102	1k	240848CC	3296Y-504	500k
240768CC	3296Y-202	2k	240856CC	3296Y-105	1M
240776CC	3296Y-502	5k	240864CC	3296Y-205	2M

JAMECO ValuePro 3299W – In-Line Solder Pins

Qty.	1	10	50	100
Price	\$2.09	\$1.99	\$1.75	\$1.55

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
241058CC	3299W-100	10	241146CC	3299W-103	10k
241066CC	3299W-200	20	241154CC	3299W-203	20k
241074CC	3299W-500	50	241162CC	3299W-253	25k
241082CC	3299W-101	100	241171CC	3299W-503	50k
241091CC	3299W-201	200	241189CC	3299W-104	100k
241103CC	3299W-501	500	241197CC	3299W-254	250k
241111CC	3299W-102	1k	241200CC	3299W-504	500k
241120CC	3299W-202	2k	241218CC	3299W-105	1M
241138CC	3299W-502	5k	241226CC	3299W-205	2M

JAMECO ValuePro 3299Y – Y Layout Solder Pins

Qty.	1	10	50	100
Price	\$2.09	\$1.99	\$1.75	\$1.55

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
240872CC	3299Y-100	10	240961CC	3299Y-103	10k
240881CC	3299Y-200	20	240979CC	3299Y-203	20k
240899CC	3299Y-500	50	240987CC	3299Y-253	25k
240901CC	3299Y-101	100	240995CC	3299Y-503	50k
240910CC	3299Y-201	200	191409CC	3299Y-104	100k
191417CC	3299Y-501	500	241015CC	3299Y-254	250k
191396CC	3299Y-102	1k	241023CC	3299Y-504	500k
240944CC	3299Y-202	2k	241031CC	3299Y-105	1M
191425CC	3299Y-502	5k	241040CC	3299Y-205	2M

Bourns® Potentiometers

Jameco now offers a broad selection of industry-renowned Bourns multi-turn potentiometers below. They're ideal for integration into devices requiring high-precision pots.

New Lower Prices

BOURNS 3296Y – Y Layout Solder Pins

Qty.	1	10	50	100
Price	\$2.05	\$1.89	\$1.66	\$1.49

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
240338CC	3296Y-1-100	10	240426CC	3296Y-1-103	10k
240346CC	3296Y-1-200	20	240434CC	3296Y-1-203	20k
240354CC	3296Y-1-500	50	240442CC	3296Y-1-253	25k
240362CC	3296Y-1-101	100	240451CC	3296Y-1-503	50k
240371CC	3296Y-1-201	200	240469CC	3296Y-1-104	100k
240389CC	3296Y-1-501	500	240477CC	3296Y-1-254	250k
240397CC	3296Y-1-102	1k	240485CC	3296Y-1-504	500k
240400CC	3296Y-1-202	2k	240493CC	3296Y-1-105	1M
240418CC	3296Y-1-502	5k	240506CC	3296Y-1-205	2M

BOURNS 3299W – In-Line Solder Pins

Qty.	1	10	50	100
Price	\$2.39	\$2.25	\$1.99	\$1.79

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
238553CC	3299W-1-100	10	183564CC	3299W-1-103	10k
238561CC	3299W-1-200	20	238633CC	3299W-1-203	20k
238570CC	3299W-1-500	50	238641CC	3299W-1-253	25k
238588CC	3299W-1-101	100	238650CC	3299W-1-503	50k
238596CC	3299W-1-201	200	183572CC	3299W-1-104	100k
238609CC	3299W-1-501	500	238668CC	3299W-1-254	250k
183556CC	3299W-1-102	1k	238676CC	3299W-1-504	500k
238617CC	3299W-1-202	2k	238684CC	3299W-1-105	1M
238625CC	3299W-1-502	5k	238692CC	3299W-1-205	2M

BOURNS 3299Y – Y Layout Solder Pins

Qty.	1	10	50	100
Price	\$2.39	\$2.19	\$1.79	\$1.59

Part No.	Product No.	Ohms	Part No.	Product No.	Ohms
240514CC	3299Y-1-100	10	240602CC	3299Y-1-103	10k
240522CC	3299Y-1-200	20	240611CC	3299Y-1-203	20k
240531CC	3299Y-1-500	50	240629CC	3299Y-1-253	25k
240549CC	3299Y-1-101	100	240637CC	3299Y-1-503	50k
240557CC	3299Y-1-201	200	240645CC	3299Y-1-104	100k
240565CC	3299Y-1-501	500	240653CC	3299Y-1-254	250k
240573CC	3299Y-1-102	1k	240661CC	3299Y-1-504	500k
240581CC	3299Y-1-202	2k	240670CC	3299Y-1-105	1M
240590CC	3299Y-1-502	5k	240688CC	3299Y-1-205	2M

Visit us on the web at www.Jameco.com

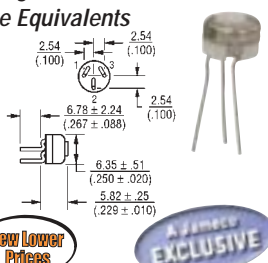
Potentiometers – Single-Turn



1/2-Watt, 1/4" Round, Cermet Potentiometers Top Adjustment ($\pm 10\%$)

3329P Series Value Equivalents

- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C
- TO-5 grid
- Terminals: solderable pins



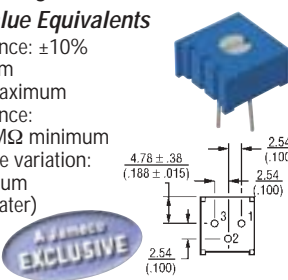
Qty.	1	10	50	100
Price	\$1.69	\$1.53	\$1.29	\$1.21

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254457CC	3329P-500	50	254537CC	3329P-203	20k
254465CC	3329P-101	100	254545CC	3329P-253	25k
254473CC	3329P-201	200	254553CC	3329P-503	50k
254481CC	3329P-501	500	254561CC	3329P-104	100k
254490CC	3329P-102	1k	254570CC	3329P-204	200k
254502CC	3329P-202	2k	254588CC	3329P-504	500k
254511CC	3329P-502	5k	254596CC	3329P-105	1M
254529CC	3329P-103	10k			

1/2-Watt, 3/8" Square, Single-Turn Trimming Potentiometers Top Adjustment ($\pm 10\%$)

3386P Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Absolute minimum resistance: 2Ω maximum
- Insulation resistance: (500VDC) 1,000M Ω minimum
- Contact resistance variation: 2% or 3 Ω maximum (whichever is greater)
- Power rating: 0.5W @ 85°C (300V maximum)



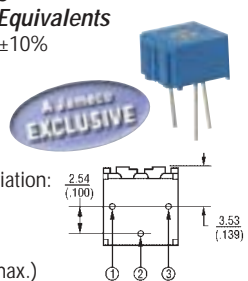
Qty.	1	10	50	100
Price	\$.85	\$.76	\$.67	\$.64

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254289CC	3386P-500	50	254377CC	3386P-253	25k
254297CC	3386P-101	100	254385CC	3386P-503	50k
254300CC	3386P-201	200	254393CC	3386P-104	100k
254318CC	3386P-501	500	254406CC	3386P-204	200k
254326CC	3386P-102	1k	254414CC	3386P-254	250k
254334CC	3386P-202	2k	254422CC	3386P-504	500k
254342CC	3386P-502	5k	254431CC	3386P-105	1M
254351CC	3386P-103	10k	254449CC	3386P-205	2M
254369CC	3386P-203	20k			

1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers Top Adjustment ($\pm 10\%$)

3362P Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M Ω
- Absolute minimum resistance: 1% or 2Ω (whichever is greater)
- Contact resistance variation: 1% or 3 Ω maximum (whichever is greater)
- Power rating: 0.5W @ 70°C (300V max.)



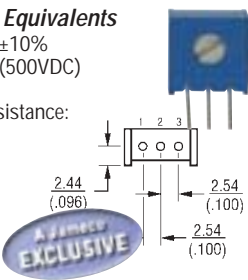
Qty.	1	10	50	100
Price	\$.59	\$.55	\$.45	\$.42

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
253964CC	3362P-101	100	254001CC	3362P-203	20k
253972CC	3362P-201	200	254019CC	3362P-253	25k
254078CC	3362P-501	500	254027CC	3362P-503	50k
253981CC	3362P-102	1k	254035CC	3362P-104	100k
253999CC	3362P-202	2k	254107CC	3362P-204	200k
254086CC	3362P-502	5k	254043CC	3362P-504	500k
254094CC	3362P-103	10k	254115CC	3362P-105	1M

1/2-Watt, 3/8" Square, Single-Turn Trimming Potentiometers Side Adjustment ($\pm 10\%$)

3386W Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M Ω minimum
- Absolute minimum resistance: 2Ω maximum
- Contact resistance variation: 2% or 3 Ω maximum (whichever is greater)
- Adjustment angle: 280° nominal



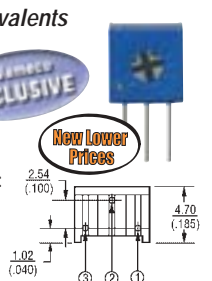
Qty.	1	10	50	100
Price	\$.89	\$.79	\$.69	\$.65

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
241381CC	3386W-500	50	241470CC	3386W-253	25k
241390CC	3386W-101	100	241488CC	3386W-503	50k
241402CC	3386W-201	200	241496CC	3386W-104	100k
241411CC	3386W-501	500	241509CC	3386W-204	200k
241429CC	3386W-102	1k	241517CC	3386W-254	250k
241437CC	3386W-202	2k	241525CC	3386W-504	500k
241445CC	3386W-502	5k	241533CC	3386W-105	1M
241453CC	3386W-103	10k	241541CC	3386W-205	2M
241461CC	3386W-203	20k			

1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers Side Adjustment ($\pm 10\%$)

3362W Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M Ω
- Absolute minimum resistance: 1% or 2Ω (whichever is greater)
- Contact resistance variation: 1% or 3 Ω maximum (whichever is greater)
- Power rating: 0.5W @ 70°C (300V max.)



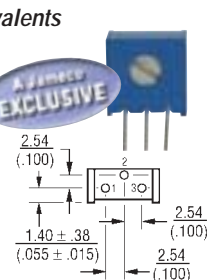
Qty.	1	10	50	100
Price	\$.59	\$.54	\$.45	\$.41

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
254140CC	3362W-101	100	254211CC	3362W-203	20k
254158CC	3362W-201	200	254220CC	3362W-253	25k
254166CC	3362W-501	500	254238CC	3362W-503	50k
254174CC	3362W-102	1k	254246CC	3362W-104	100k
254182CC	3362W-202	2k	254254CC	3362W-204	200k
254191CC	3362W-502	5k	254262CC	3362W-504	500k
254203CC	3362W-103	10k	254271CC	3362W-105	1M

1/2-Watt, 3/8" Square, Single-Turn Trimming Potentiometers Side Adjustment ($\pm 10\%$)

3386X Series Value Equivalents

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: (500VDC) 1,000M Ω min.
- Absolute minimum resistance: 2Ω maximum
- Contact resistance variation: 2% or 3 Ω maximum (whichever is greater)
- Power rating: 0.5W @ 85°C (300V max.)



Qty.	1	10	50	100
Price	\$.85	\$.76	\$.67	\$.64

Part No.	Cross Ref. No.	Ohms	Part No.	Cross Ref. No.	Ohms
264604CC	3386X-500	50	264698CC	3386X-253	25k
264612CC	3386X-101	100	264701CC	3386X-503	50k
264621CC	3386X-201	200	264719CC	3386X-104	100k
264639CC	3386X-501	500	264727CC	3386X-204	200k
264647CC	3386X-102	1k	264735CC	3386X-254	250k
264655CC	3386X-202	2k	264743CC	3386X-504	500k
264663CC	3386X-502	5k	264751CC	3386X-105	1M
264671CC	3386X-103	10k	264760CC	3386X-205	2M
264680CC	3386X-203	20k			

Current Sensing Transformers

Class 1 Current Transformer

This series can be applied to test, control, display, and record the running of electrical equipment, and to protect the equipment against damage in the AC circuit.

- Maximum voltage: 660VAC
- Frequency: 50-60Hz
- Size: 3.0"L x 3.2"W x 1.6"T
- Weight: 1.1 lbs.

Includes: Mounting bracket and hardware



Part No.	Mfr. Cross Ref. No.	Power	Ratio	1	10	100
174887CC	MSQ30	5VA	200A/5A; 5VA	\$4.49	\$4.04	\$3.64

Current Sensing Transformer

- Inductance: 5mH
- Turns: 60
- Sensitivity current (I_n): 1A
- Max. current: 300mA
- Freq. range: 10-50 kHz
- Sensitivity voltage (V_{out}): 1V
- Terminating resistor: 50 Ω
- Size: 0.8"H x 0.7"W x 0.4"T

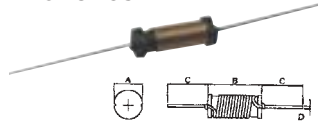


Part No.	Mfr. Cross Ref. No.	1	10	100
164718CC	MTC30101	\$2.15	\$1.95	\$1.75

Axial Leaded RF Chokes

4600 Series

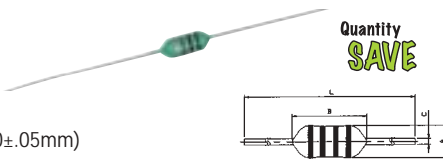
- Inductive tolerance: 10%
- Operating temperature: -55°C to +125°C
- Size: A = 6.8mm max.; B = 19.0mm max.
C = 25.0±2.0mm; D = 0.65±0.5mm



Part No.	Mfr. Cross Ref. No.	L (μH)	Q (min.)	Res. Freq Min. (MHz)	DCR Max. (μ)	Max. DC Current (mA)	Pricing		
							1	10	100
208063CC	4602	1.0	60	190	.050	2000	\$.69	\$.62	\$.55
208071CC	4604	1.5	58	149	.093	1800	.69	.62	.55
208080CC	4606	2.4	56	120	.190	1500	.69	.62	.55
208098CC	4608	3.9	60	93	.450	1000	.69	.62	.55
208101CC	4609	5.5	57	80	.670	850	.69	.62	.55
208119CC	4610	6.2	57	76	.830	700	.69	.62	.55
208127CC	4611	8.2	57	65	1.2	600	.69	.62	.55
208135CC	4612	10	36	61	1.5	500	.69	.62	.55

Epoxy Conformal Coated Chokes

- Operating temperature: -25°C to +85°C
- Tolerance: 5%
- Size: A = 3.2mm max.
B = 7.0mm max.
C = 0.48±0.5mm
(except P/N 208143CC: 0.50±0.05mm)
D = 63±3mm



Part No.	L (μH)	Q (min.)	Test. Freq (MHz)	Res. Freq Min. (MHz)	DCR Max. (μ)	Max. DC Curr. (mA)	Pricing		
							1	10	100
208143CC	10	60	7.96	28.7	1.56	670	\$.49	\$.45	\$.39
208151CC	27	50	2.52	10.2	2.39	410	.49	.44	.33
208160CC	33	50	2.52	8.4	2.71	380	.49	.45	.39
208178CC	47	50	2.52	6.9	3.3	330	.49	.45	.39
208186CC	82	45	2.52	5.4	4.62	240	.49	.44	.40
208194CC	100	45	2.52	5.0	4.98	240	.49	.45	.39
208207CC	220	45	0.796	3.3	9.23	180	.49	.45	.39
208215CC	330	45	0.796	2.7	13.2	140	.49	.44	.33
208223CC	470	45	0.796	2.2	21.4	120	.49	.45	.39
208231CC	820	45	0.796	1.7	28.4	90	.49	.44	.33
208240CC	1000	45	0.796	1.5	31.3	80	.49	.45	.39

For more NTE Varistors
see page 49.



Thermistors

NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Operating temperature range: -30°C ~ +130°C
- Maximum allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%

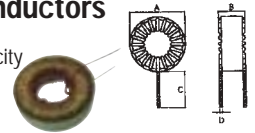


Part No.	Mfr. Cross Ref. No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @ 25°C (%/°C)	Pricing			
					1	10	100	500
207520CC	NTC-101	100	3100	-3.5	\$.59	\$.49	\$.39	\$.32
207511CC	NTC-201	200	3100	-3.5	.59	.49	.40	.30
207503CC	NTC-301	300	3100	-3.5	.59	.49	.39	.32
207491CC	NTC-501	500	3100	-3.5	.59	.49	.39	.32
207482CC	NTC-102	1k	3800	-4.3	.59	.49	.39	.32
207474CC	NTC-202	2k	3800	-4.3	.59	.49	.39	.32
207466CC	NTC-302	3k	3900	-4.4	.59	.50	.40	.30
207458CC	NTC-402	4k	3900	-4.4	.59	.49	.39	.32
207440CC	NTC-502	5k	3900	-4.4	.59	.49	.39	.32
207036CC	NTC-103	10k	4100	-4.6	.59	.49	.39	.32
207028CC	NTC-153	15k	4100	-4.6	.59	.49	.40	.30
207010CC	NTC-203	20k	4200	-4.7	.59	.49	.39	.32
207001CC	NTC-503	50k	4200	-4.7	.59	.49	.39	.32
206990CC	NTC-104	100k	4400	-4.9	.59	.49	.39	.32
206981CC	NTC-204	200k	4500	-5.1	.59	.50	.40	.30

High Current Toroid Inductors

5700 Series

- Low radiation • Low core loss • High current capacity
- Size: A = 22.22mm max.; B = 11.09mm max.
C = 15.0±1.0mm; D = 1.2±0.5mm
- See page 165 for EMI suppression cores
- See technical datasheets on www.jameco.com for complete specifications



Part No.	Mfr. Cross Ref. No.	L (μH)	IDC max. (A)	L min. @ IDC	Pricing				
					1	10	25	50	100
208258CC	5701	10	11.0	5	\$3.99	\$3.05	\$2.74	\$2.26	\$2.06
208266CC	5702	25	5.5	12	3.99	3.05	2.74	2.26	2.06
208311CC	5711	50	9.5	25	4.95	4.46	3.79	3.03	2.27
208303CC	5707	75	5.0	40	4.35	3.75	3.37	2.78	2.53
208274CC	5703	125	2.75	70	3.99	3.05	2.74	2.26	2.06
208320CC	5712	150	4.75	85	4.93	4.35	3.75	3.37	2.78
208282CC	5704	275	2.0	150	3.99	3.05	2.74	2.26	2.06
208291CC	5705	450	1.5	250	4.35	3.28	2.95	2.44	2.21

Varistors

LA Series Varistors (Radial Lead)

- AC power line applications • Power supplies • High energy absorption
- UL recognized as "transient voltage surge suppressors"
- UL recognized as "across-the-line components"

LA Series		Size	Max. Ratings (+85°C)		Characteristics at 25°C		Pricing			
			Continuous RMS Volt.	DC Volt.	Transient Energy (10/1000μs) @ I _{PK} Value Curr. (8/20μs)	Max Clamping Volt. @ I _{PK} Value Curr. (8/20μs)	1	10	100	500
Part No.	Mfr. Cross Ref. No.	Disc. Dia. (mm)	V _{m(ac)} Volts	V _{m(dc)} Volts	W _{tm} Joules	V Volts	I _{PK} =2.0A Amps			
34446CC	V130LA10A	14	130	175	38	340	50	\$.29	\$.25	\$.22
34471CC	V250LA20A	14	250	330	72	650	50	.39	.35	.32
34462CC	V130LA20A	20	130	175	70	340	100	.59	.56	.54

ZA Series Varistor (Radial Lead)

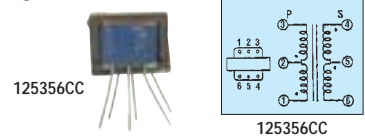
- Low DC voltage applications • Printed circuit board designs
- UL recognized as "transient voltage surge suppressors" • Low transient energy
- Used for highly sensitive devices • Computer equipment • Alarm systems

ZA Series		Size	Characteristics at 25°C		Pricing			
			Varistor Voltage @ 1 mA DC Test Current	Max. Clamping Volt. @ I _{PK} Value Curr. (8/20μs)	1	10	100	500
Part No.	Mfr. Cross Ref. No.	Disc. Dia. (mm)	Min. Volts	V _{N(dc)} Volts	Max. Volts	V Volts	I _{PK} =2.0A Amps	
190449CC	V18ZA1	7	16.0	18.0	20.0	35	2.5	\$.21

Coupling Transformers

Modem Coupling Transformers

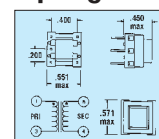
- Insulation resistance: 100MΩ
- Core type: EI-14
- Vacuum wax impregnated
- Hipot tested: 1000VAC
- ±20% impedance matching
- ±20% DC resistance matching



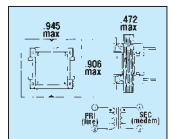
Part Number	Mfr. Cross Ref. No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
125356CC	XFR6006A14	600CT	600CT	65	55	\$1.29	\$1.18	\$1.08
205962CC	60-282-0	1.2KCT	8	45	1.5	1.69	1.55	1.35

Modem Coupling Transformers

141621CC



141621CC



117760CC

- Dielectric strength: 1250VAC
- Insertion Loss: 141621: 1.25dB@1kHz; 117760: 2.50dB@1kHz

Part Number	Mfr. Cross Ref. No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
141621CC	671-8255	600	600	46.5	67.6	\$1.95	\$1.66	\$1.30
117760CC	671-8014	600	600	108	120	1.99	1.69	1.27

Resettable Fuses

Resettable fuses improve reliability and lower costs. Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

RA Series

- Rated voltage: (V_{MAX}): 60V
- Max. current: (I_{MAX}): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.1mm min.

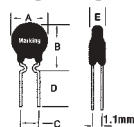


Fig. 1

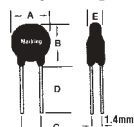


Fig. 2

RB Series

- Rated voltage: (V_{MAX}): 30V
- Max. current: (I_{MAX}): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.0mm min.

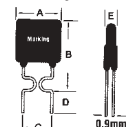


Fig. 3

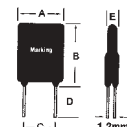


Fig. 4

Part No.	Mfr. Cross Ref. No.	Hold Curr. (I_H , A)	Trip Curr. (I_T , A)	Fig.	Size (mm)			Pricing			
					A	B	C	1	10	100	500
199814CC	RA010-60	0.10	0.20	1	7.4	12.7	5.1	\$.45	\$.41	\$.39	\$.31
199822CC	RA017-60	0.17	0.34	1	7.4	12.7	5.1	\$.45	\$.41	\$.39	\$.31
199831CC	RA020-60	0.20	0.40	1	7.4	12.2	5.1	\$.45	\$.41	\$.39	\$.31
199849CC	RA025-60	0.25	0.50	1	7.4	12.7	5.1	\$.45	\$.41	\$.39	\$.31
199857CC	RA030-60	0.30	0.60	1	7.4	13.0	5.1	\$.45	\$.41	\$.39	\$.31
199865CC	RA040-60	0.40	0.80	1	7.6	13.5	5.1	\$.49	\$.44	\$.41	\$.32
199873CC	RA050-60	0.50	1.00	1	7.9	13.7	5.1	\$.49	\$.46	\$.43	\$.32
199881CC	RA065-60	0.65	1.30	1	9.7	14.5	5.1	\$.50	\$.47	\$.43	\$.34
199890CC	RA075-60	0.75	1.50	1	10.4	15.2	5.1	\$.50	\$.47	\$.43	\$.34
199902CC	RA090-60	0.90	1.80	1	11.7	15.8	5.1	\$.52	\$.49	\$.45	\$.30
199911CC	RA110-60	1.10	2.20	2	13.0	18.0	5.1	\$.57	\$.55	\$.52	\$.40
199929CC	RA135-60	1.35	2.70	2	14.5	19.6	5.1	\$.58	\$.56	\$.53	\$.41
199937CC	RA160-60	1.60	3.20	2	16.3	21.3	5.1	\$.60	\$.57	\$.54	\$.42
199945CC	RA185-60	1.85	3.70	2	17.8	22.9	5.1	\$.59	\$.55	\$.55	\$.39
199953CC	RA250-60	2.50	5.00	2	21.3	26.4	10.2	\$.70	\$.63	\$.57	\$.49
199961CC	RA300-60	3.00	6.00	2	24.9	30.0	10.2	\$.74	\$.67	\$.60	\$.50
199970CC	RA375-60	3.75	7.50	2	28.5	33.5	10.2	\$.74	\$.67	\$.53	\$.40

Fuse Clips

- Low contact resistance
- Low profile
- Withstands shock and vibration

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	Fig.	Size (H" x W" x D" x P")	10	100	1000
102859CC	5mm, front leads	1	.37 x .25 x .21 x .19	\$.12	\$.09	\$.05
119280CC	5mm, side leads	2	.33 x .25 x .20 x .21	\$.09	\$.08	\$.07
102841CC	1/4", front leads (10A)	3	.32 x .27 x .25 x .23	\$.09	\$.08	\$.07
220732CC	5mm, front leads (10A)	3	.33 x .27 x .25 x .29	\$.15	\$.10	\$.07



Fig. 1



Fig. 2



Fig. 3

Part No.	Mfr. Cross Ref. No.	Hold Curr. (I_H , A)	Trip Curr. (I_T , A)	Fig.	Size (mm)			Pricing			
					A	B	C	1	10	100	500
199988CC	RB090-30	0.90	1.80	3	7.4	12.2	5.1	\$.48	\$.43	\$.35	\$.26
199996CC	RB110-30	1.10	2.20	3	7.4	14.2	5.1	\$.48	\$.43	\$.39	\$.31
200002CC	RB135-30	1.35	2.70	3	8.9	13.5	5.1	\$.48	\$.46	\$.43	\$.34
200011CC	RB160-30	1.60	3.20	3	8.9	15.2	5.1	\$.45	\$.42	\$.39	\$.31
200029CC	RB185-30	1.85	3.70	3	10.2	15.7	5.1	\$.48	\$.43	\$.39	\$.32
200037CC	RB250-30	2.50	5.00	3	11.4	18.3	5.1	\$.52	\$.48	\$.43	\$.34
200045CC	RB300-30	3.00	6.00	4	11.4	17.3	5.1	\$.57	\$.52	\$.48	\$.37
200053CC	RB400-30	4.00	8.00	4	14.0	20.1	5.1	\$.62	\$.57	\$.52	\$.40
200061CC	RB500-30	5.00	10.00	4	14.0	24.9	10.2	\$.67	\$.60	\$.54	\$.44
200070CC	RB600-30	6.00	12.00	4	16.5	24.9	10.2	\$.73	\$.67	\$.61	\$.48
200088CC	RB700-30	7.00	14.00	4	19.1	26.7	10.2	\$.80	\$.73	\$.67	\$.52
200096CC	RB800-30	8.00	16.00	4	21.6	29.2	10.2	\$.87	\$.78	\$.63	\$.47
200109CC	RB900-30	9.00	18.00	4	24.1	29.7	10.2	\$.89	\$.79	\$.69	\$.59

Panel Mount Fuse Holders

1/4" x 1/4" Standard Thumbscrew Cap

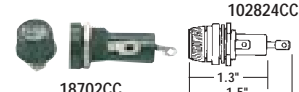
- Straight solder terminal; 10A @ 250VAC

Part No.	Approvals	Size	Mounting Hole	1	10	100	1000
120993CC	—	1.95"L x .71"Dia. .58"Dia. (Double D-style)		\$.79	\$.69	\$.55	\$.49
18702CC	UL/CSA	2.05"L x .71"Dia. .58"Dia. x .52"Flat (D-style)		1.59	1.35	1.15	.99

5mm x 20mm Miniature Thumbscrew Cap

- Straight solder terminal; Size: 1.5"L x 0.6"Dia.

Part No.	Approvals	Current	Mounting Hole	1	10	100	1000
150463CC	—	6A @ 250VAC	.50"Dia. x .43"Flat	\$.99	\$.86	\$.75	\$.57
102824CC	UL/CSA	10A @ 250VAC	.50"Dia.	.99	.85	.72	.59



1/4" x 1/4" Standard Fuses

Fast Acting Fuses (250V) AGC/3AG Fuses

- Prepackaged: order in increments of 10, 100 or 1000

Part No.	Amps	Mfr.	10	100	1000
69403CC	250mA	Various	\$.20	\$.18	\$.16
10410CC	500mA	Various	.20	.18	.16
197510CC	630mA	Various	.20	.18	.16
10372CC	1 amp	Various	.20	.12	.11
197528CC	1.6 amp	Various	.20	.12	.11
10381CC	2 amp	Various	.20	.12	.11
197536CC	2.5 amp	Various	.21	.12	.09
69438CC	3 amp	Various	.20	.12	.11
197544CC	4 amp	Various	.22	.20	.18
10401CC	5 amp	Various	.22	.20	.18
197552CC	6.3 amp	Various	.22	.20	.18
69462CC	10 amp	Various	.25	.22	.20
186301CC	16 amp	Various	.25	.22	.20

Slow Blow Fuses (250V) MDL/3AG Fuses

Part No.	Amps	Mfr.	1	10	100	1000
25654CC	250mA	Various	\$.75	\$.59	\$.50	\$.40
25689CC	500mA	Various	.69	.59	.50	.37
25638CC	1 amp	Various	.69	.59	.50	.37
25646CC	2 amp	Various	.55	.44	.34	.28
69534CC	3 amp	Various	.55	.44	.34	.28
25671CC	5 amp	Various	.55	.44	.34	.28
69569CC	10 amp	Various	.75	.65	.51	.40

5mm x 20mm Miniature Fuses

Fast Acting Fuses (250V) GMA Fuses

- Recommended for new designs
- Prepackaged: order in increments of 10, 100, 500 or 1000

Part No.	Amps	Mfr.	10	100	500	1000
103886CC	250mA	Various	\$.20	\$.15	\$.11	\$.10
102040CC	500mA	Various	.20	.15	.11	.10
103907CC	1 amp	Various	.20	.15	.11	.10
103915CC	2 amp	Various	.20	.15	.11	.10
103923CC	3 amp	Various	.20	.15	.11	.10
103931CC	5 amp	Various	.20	.15	.11	.10

Slow Blow Fuses (250V) GMA Fuses

- Prepackaged: order in increments of 10, 100 or 1000

Part No.	Amps	Mfr.	10	100	1000
197501CC	500mA	Various	\$.29	\$.26	\$.23
197464CC	1 amp	Various	.29	.25	.19
197472CC	2 amp	Various	.35	.32	.29
197481CC	3.15 amp	Various	.35	.32	.29
197499CC	5 amp	Various	.35	.32	.29

For NTE Thermal Fuses see page 49.

NTE



In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center
- Wire color: red; except for P/N 108783CC orange

1/4" x 1/4" Standard

Part No.	AWG	Wire Lgths	Body Size(L)	Color	1	10	100
109321CC	22	3.5/3"	2.4"	Black	\$.65	\$.58	\$.52
102867CC	20	3/3"	2.2"	White	\$.65	\$.58	\$.48
151917CC	18	6/6"	2.4"	White	.99	.85	.65
108783CC	16	21/26"	2.2"	Black	.99	.87	.68
108791CC	14	19/25"	2.5"	Black	1.59	1.45	1.05

5mm x 20mm Miniature

Part No.	AWG	Wire Color	Body Size (L)	1	10	100
109330CC	20	Red	1.8"	\$.69	\$.56	\$.45

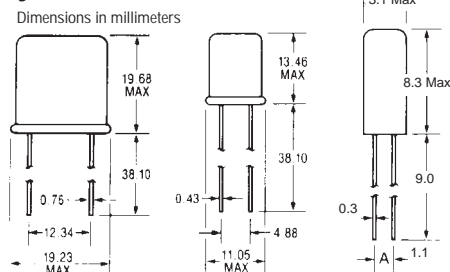
5mm x 20mm Miniature Low Profile Fuse Holder

- Accepts 5 x 20mm fuses
- 10A @ 250VAC
- Size: 1.4"L x 0.6"Dia.
- D-style mounting hole: 1 ea. 0.5"Dia x .46" flat

Part No.	Description	1	10	100
102832CC	Fuse holder UL/CSA	\$.195	\$1.79	\$1.59



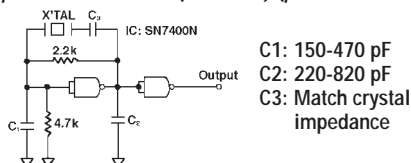
Crystals



HC33/U Case HC49/U (HC18/U) Case TF Case

- Frequency calibration tolerance: ± 50 ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0 mW maximum
- Frequency stability tolerance: ± 50 ppm from -10°C to +60°C
- Shunt capacitance: 7pF maximum

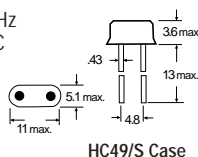
Application Reference (4-14MHz) (parallel resonance)



C1: 150-470 pF
C2: 220-820 pF
C3: Match crystal impedance

Low Profile Crystals

- Frequency range: 3.5 to 70.0MHz
- Operating temp.: -10°C to +60°C
- Drive level: 0.5mW (fundamental frequency)
- Aging: ± 5 ppm/year maximum
- Frequency stability tolerance: ± 50 ppm



HC49/S Case

Crystals vs. Crystal Oscillators – Which is Right?

When designing a digital circuit, engineers must often consider what type of oscillator is most appropriate. Designs could incorporate a discrete crystal with accompanying RC resonator and driver. Alternatively, one might employ an integrated TTL oscillator.

While the decision to choose one over the other can seem complicated, just a few considerations solve most common situations.

- Does circuit require a TTL compatible clock?
Yes: Use the TTL Oscillator.
- Are you capable of designing the appropriate series or parallel resonant circuit required for your circuit and frequency?
Yes: Design around crystals for the appropriate signal type.
- Can you easily condition a TTL signal?
Yes: Design signal translator around oscillator.
No: Hire help!

Practical Practices
Money Saving Tips for the Engineer



HC33/U Case

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Impedance	Microprocessor	Pricing			
					1	10	100	1000
14349CC	CY1	1.0	13pF	MC6800/6808/6809E/6500 series	\$4.95	\$4.49	\$3.95	\$3.49

HC49/U (HC18/U) Case

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Impedance	Microprocessor	1	10	100	1000
102613CC	CY1.843	1.8432	18pF	MC14411/MC6802	\$.99	\$.72	\$.51	\$.39
102621CC	CY2.0	2.0	Series	2650/F-8	.81	.73	.66	.55
101274CC	CY2.457	2.4576	32pF	CDP1702/1802C/1804/1804C	.99	.89	.75	.69
14525CC	CY3.27	3.2768	18pF	IM6100C/CDP1802/CDP1804	.99	.89	.79	.69
14533CC	CY3.57	3.579545	18pF	MC6801,2,3/MM5369	.59	.54	.42	.39
14568CC	CY3.68	3.6864	18pF	8748/8035-8	.89	.79	.69	.59
14592CC	CY4	4.0	20pF	MCS-40/MC6802,8,9/CDP1802	.59	.54	.41	.39
14621CC	CY4.91	4.9152	Series	CDP1802C/1804/1804C	.89	.79	.69	.59
14681CC	CY6	6.0	18pF	MCS-48/IM8048	.79	.71	.64	.50
14699CC	CY6.14	6.144	30pF	MCS-85/8085	.37	.34	.30	.25
14710CC	CY7.37	7.3728	30pF	8051/8031	.89	.80	.65	.488
14728CC	CY8	8.0	Series	IM6100A/MC68B09	.89	.79	.69	.54
14381CC	CY10	10.0	Series	MCS-85/8085A-2	.79	.69	.59	.49
120061CC	CY11.05	11.0592	Series	General purpose	.89	.79	.69	.59
14402CC	CY12	12.0	Series	MCS-86/8086/8284/8202	.89	.75	.55	.39
14453CC	CY16	16.0	Series	8080/8224/general purpose	.62	.56	.50	.44
14517CC	CY20	20.0	Series	MCS-80/8080A/8224	.79	.69	.59	.39

TF Case

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Impedance	Microprocessor	1	10	100	1000
14584CC	CY32.76	32.768kHz	10.5pF	Tuning fork	\$.89	\$.79	\$.69	\$.59

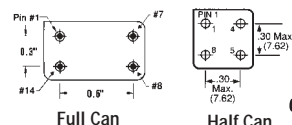
HC49/S Case (Low Profile)

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Imped.	Max. Resist.	Microprocessor	Pricing			
						1	10	100	1000
137816CC	CY3.57LP	3.579545	17pF	150Ω	MC6801, 2, 3/MM5369	\$.95	\$.86	\$.68	\$.51
137832CC	CY4LP	4.000	17pF	120Ω	MCS-40/MC6802, 8, 9/CDP1802	.99	.89	.79	.69
137859CC	CY8LP	8.000	Series	60Ω	IM6100A/MC68B09	.75	.67	.59	.53
137875CC	CY11.05LP	11.0592	Series	50Ω	General purpose	1.05	.81	.66	.52
137891CC	CY16LP	16.000	Series	40Ω	8080/8224/general purpose	.39	.36	.29	.27

TTL Crystal Oscillators

Specifications:

- Input voltage: +5VDC ± 0.5 VDC
- OSC series oscillators fit into a 14-pin DIP socket P/N 133006CC, right
- Frequency stability ± 100 ppm
- Operating temperature: 0°C to 70°C



Pin #	Function
1	N/C
7	GND
8	Output
14	+5VDC

Full Can

Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC

Half Can

14-Pin Crystal Oscillator Socket

- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins
- Good for prototyping and PCB mounting



Part No.	Description	1	10	100	1000
133006CC	Oscillator socket	\$.55	\$.46	\$.34	\$.31

Part No.	Mfr. Cross Ref. No.	Frequency (MHz)	Size	Max Input Current	Rise Fall Time	Input Current	Pricing			
							1	10	100	1000
27861CC	OSC1	1.0	Full	7mA	15ns	45mA	\$2.75	\$2.45	\$1.59	\$1.39
27879CC	OSC1.84	1.8432	Full	7mA	15ns	45mA	2.39	2.15	1.95	1.59
27924CC	OSC2	2.0	Full	7mA	15ns	30mA	1.99	1.79	1.59	1.39
27967CC	OSC4	4.0	Full	7mA	10ns	50mA	1.99	1.79	1.59	1.39
27991CC	OSC8	8.0	Full	15mA	15ns	30mA	1.99	1.79	1.59	1.39
27887CC	OSC10	10.0	Full	15mA	10ns	20mA	1.99	1.79	1.59	1.39
102779CC	OSC10H	10.0	Half	45mA	6ns	30mA	1.45	1.05	.96	.79
144207CC	OSC11.05	11.059	Full	50mA	10ns	30mA	1.35	1.19	.95	.89
27895CC	OSC12	12.0	Full	15mA	10ns	50mA	1.99	1.79	1.59	1.29
108652CC	OSC14.31	14.31818	Full	15mA	10ns	50mA	1.99	1.79	1.45	1.09
27908CC	OSC16	16.0	Full	15mA	10ns	50mA	1.59	1.45	1.15	.85
27932CC	OSC20	20.0	Full	17mA	10ns	20mA	1.79	1.59	1.45	1.29
27941CC	OSC32	32.0	Full	18mA	7ns	15mA	1.59	1.45	1.15	.85
76822CC	OSC33	33.0	Full	18mA	6ns	15mA	1.99	1.79	1.59	1.35
153226CC	OSC40	40.0	Full	18mA	6ns	15mA	1.25	1.13	1.02	.83
76831CC	OSC50	50.0	Full	25mA	6ns	25mA	1.99	1.79	1.43	1.07
76857CC	OSC100	100.0	Full	25mA	3ns	90mA	2.49	2.25	1.95	1.75



Belden Coaxial Cables

Compare Belden coaxial cables with the other companies who produce them and you will discover the obvious: Belden has no equal. That's because Belden coaxial cables are time-tested for performance, performance that guarantees outstanding value. Belden guarantees this level of performance because every cable is tested with equipment that simulates every known environmental and electrical performance condition. As a result, Belden coaxial cable can be counted on for positive, reliable, and trouble-free operation. Engineered in a wide selection of sizes and materials, with each offering the benefits needed for physical, electrical and cost-requirement applications. Cable choices include broadband, standard analog, precision video for analog and digital, and more. For our complete line of Belden products, please visit www.Jameco.com/Belden.

50Ω Transmission and Computer Cable RG8/U Type

16 AWG stranded (19x29) .058" bare copper

- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 81.4pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .042" • Color: black



SALE

Part No.	Product No.	Description	1	5	10
234254CC	9258-100-10	100' reel	\$55.79	\$46.88	\$44.54
234256CC	9258-500-10	500' reel	205.99	168.99	159.99
234255CC	9258-1000-10	1000' reel	406.79	386.45	367.13
234258CC	9258-U500-10	500' unreel box	205.99	168.99	159.99
234257CC	9258-U1000-10	1000' unreel box	406.79	386.45	367.13

13 AWG stranded (7 x 21) .085" bare copper

- 97% bare copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m • Nominal impedance: 52Ω
- Nominal outer diameter: .405" • Color: black



Part No.	Product No.	Description	1	5	10
232848CC	8237-100-10	100' reel	\$114.39	\$103.98	\$95.32
232856CC	8237-500-10	500' reel	397.75	361.54	331.44
232864CC	8237-1000-10	1000' reel	697.19	639.18	589.97

11 AWG stranded (7 x 19) .108" bare copper

- 97% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 85.3pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .285" • Color: black



Part No.	Product No.	Description	1	5	10
232750CC	8214-100-10	100' reel	\$99.99	\$94.67	\$86.80
232768CC	8214-500-10	500' reel	523.45	475.83	436.21
232776CC	8214-1000-10	1000' reel	829.15	760.10	701.58

50Ω Transmission and Computer Cable RG58A/U Type

20 AWG solid .032" bare copper

- 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m • Nominal impedance: 51.5Ω
- Nominal outer diameter: .193" • Color: black

SALE



Part No.	Product No.	Description	1	5	10
232872CC	8240-100-10	100' reel	\$39.99	\$36.39	\$33.06
232881CC	8240-500-10	500' reel	137.79	124.99	113.59
232899CC	8240-1000-10	1000' reel	250.49	229.70	212.02
234175CC	8240-U500-10	500' unreel box	109.99	90.99	90.39
234174CC	8240-U1000-10	1000' unreel box	219.99	181.99	180.77

20 AWG stranded (19 x 33) .035" tinned copper

- 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .192" • Color: black



Part No.	Product No.	Description	1	5	10
232936CC	8259-100-10	100' reel	\$44.79	\$40.64	\$36.93
232944CC	8259-500-10	500' reel	126.59	115.08	105.51
232952CC	8259-1000-10	1000' reel	261.15	237.29	221.43

20 AWG stranded (19 x 32) .037" tinned copper

- 96% tinned copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 86.9pF/m • Nominal impedance: 53.5Ω
- Nominal outer diameter: .194" • Color: black



Part No.	Product No.	Description	1	5	10
232813CC	8219-100-10	100' reel	\$35.99	\$34.30	\$31.90
232821CC	8219-500-10	500' reel	144.29	137.09	130.24
232830CC	8219-1000-10	1000' reel	299.99	286.18	265.47

50Ω Transmission and Computer Cable RG174/U Type

26 AWG stranded (7 x 34) .019" bare copper-covered steel

- 90% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .110" • Color: black



Part No.	Product No.	Description	1	5	10
232784CC	8216-100-10	100' reel	\$35.45	\$32.18	\$29.23
232792CC	8216-500-10	500' reel	114.19	103.64	94.16
232805CC	8216-1000-10	1000' reel	215.99	203.97	193.77

75Ω Broadband Coax CATV Cable RG6/U Type

18 AWG solid .040" bare copper-covered steel

- DuoBond® II +60% aluminum braid shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .270" • Color: black



Part No.	Product No.	Description	1	5	10
233269CC	9116-100-10	100' reel	\$20.89	\$17.56	\$16.68
233277CC	9116-500-10	500' reel	57.19	50.07	47.57
233285CC	9116-1000-10	1000' reel	102.55	97.43	92.56

18 AWG solid .040" bare copper-covered steel

- DuoBond® IV quad shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .298" • Color: black



Part No.	Product No.	Description	1	5	10
232733CC	1189A-100-10	100' reel	\$23.99	\$20.14	\$18.13
233402CC	1189A-500-10	500' reel	83.99	67.87	64.48
232741CC	1189A-1000-10	1000' reel	152.55	144.93	137.68
234052CC	1189A-U500-10	500' unreel box	83.99	67.87	64.48

Precision Video Cable for Analog and Digital RG6 Type

18 AWG solid .040" bare copper

- DuoFoil® +95% tinned copper braid shield
- Gas injected foam HDPE insulation, PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .275" • Color: black



Part No.	Product No.	Description	1	5	10
234099CC	1694A-100-10	100' reel	\$66.49	\$55.86	\$53.07
234155CC	1694A-500-10	500' reel	199.99	162.90	150.90
234154CC	1694A-1000-10	1000' reel	403.75	327.78	303.80

Direct Broadcast Satellite RG6 Type Cable

18 AWG solid .040" bare copper

- DuoBond® II +60% aluminum braid
- Gas injected foam polyethylene insulation, PVC jacket
- Nominal capacitance: 16.2pF/m
- Nominal impedance: 75Ω
- Nominal outer diameter: .270"



Part No.	Product No.	Description	1	5	10
234156CC	1829AC-100-10	100' reel	\$14.99	\$13.99	\$12.99
234177CC	1829AC-500-10	500' reel	54.99	52.24	49.63
234157CC	1829AC-1000-10	1000' reel	106.99	96.29	91.48

Composite Data, Audio, Video, Security and Control Cable

Two RG6 18 AWG solid bare copper conductor and two 4-pair UTP 24 AWG solid bare copper conductor

- Banana Peel™ jacketless cables
- Gas injected FPR insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Component nominal outer diameter: .200"



SALE

Part No.	Product No.	Description	1	5	10
234163CC	7913S-500	500' reel	\$242.99	\$229.99	\$219.99
234162CC	7913S-1000	1000' reel	461.79	449.43	437.08



Belden Coaxial Cables (Continued)

75Ω Standard Analog Video Cable RG59/U Type

23 AWG solid .023" bare copper

- 95% bare copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 67.3pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .242" • Color: black



Part No.	Product No.	Description	1	5	10
232901CC	8241-100-10	100' reel	\$44.39	\$39.90	\$36.60
232910CC	8241-500-10	500' reel	125.19	113.62	103.17
232928CC	8241-1000-10	1000' reel	224.15	205.77	189.67

22 AWG stranded (7 x 30) .030" bare copper

- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 56.7pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .241" • Color: black



SALE

Part No.	Product No.	Description	1	5	10
232653CC	9259-100-10	100' reel	\$50.25	\$40.63	\$39.12
232661CC	9259-500-10	500' reel	135.85	123.44	120.99
232670CC	9259-1000-10	1000' reel	264.49	254.99	241.89
234070CC	9259-U500-10	500' unreel box	135.85	123.44	120.99
234069CC	9259-U1000-10	1000' unreel box	264.49	254.99	241.89

RG59 Type Security Coaxial Cable

20 AWG solid bare copper conductor

- 95% bare copper braid shield
- Nominal impedance: 75Ω
- Foam polyolefin insulation and black UV resistant PVC jacket
- Impregnated with CoreGuard® flame retardant flooding compound
- Shielded or flooded for use in underground ducts
- Surveillance and CCTV applications • Color: black



Part No.	Product No.	Description	1	5	10
234158CC	543945-100-10	100' reel	\$13.85	\$13.18	\$12.51
234160CC	543945-500-10	500' reel	64.95	61.98	58.92
234159CC	543945-1000-10	1000' reel	129.99	107.49	101.49

Standard Analog Video Cable 75Ω Miniature Coax

27 AWG stranded (7x35) .017" bare copper-covered steel

- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 67.3pF/m
- Nominal impedance: 75Ω
- Nominal outer diameter: .100" • Color: black



Part No.	Product No.	Description	1	5	10
234173CC	8218-U500-10	500' unreel box	\$175.85	\$159.56	\$144.99
234172CC	8218-U1000-10	1000' unreel box	363.95	330.20	313.69

Broadband Coax (Headend/Video Cables)

20 AWG solid .031" bare copper

- 98% tinned copper double braid shield
- Polyethylene insulation and jacket
- Nominal capacitance 68.9pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .305" • Color: black



Part No.	Product No.	Description	1	5	10
232961CC	8281-100-10	100' reel	\$85.49	\$72.06	\$68.46
232979CC	8281-500-10	500' reel	349.99	299.99	269.75
232987CC	8281-1000-10	1000' reel	656.49	559.99	535.49

20 AWG solid .032" solid bare copper

- Duofoil® +95% tinned copper braid shield
- Gas injected foam HDPE insulation and PVC jacket
- Nominal capacitance: 53.5pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .234" • Color: black



SALE

Part No.	Product No.	Description	1	5	10
234086CC	1505A-100-10	100' reel	\$51.05	\$42.89	\$40.75
234088CC	1505A-500-10	500' reel	172.49	140.49	139.99
234087CC	1505A-1000-10	1000' reel	339.99	280.99	279.75



Belden Speaker Cables

These speaker cables are used to connect receivers or power amplifiers to speakers and are also used for the internal wiring of the speakers. All Belden speaker cables utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115.

Electrolytic Tough Pitch (ETP) High Conductivity Copper Speaker Cables

- 2-conductor stranded
- ETP high conductivity copper
- Parallel (1) tinned (1) bare
- PVC insulation • Clear PVC jacket



18 AWG Stranded (16 x 30)

Part No.	Product No.	Description	1	5	10
232573CC	9708-100-368	100' reel	\$32.59	\$29.48	\$26.79
232581CC	9708-500-368	500' reel	119.85	113.82	107.51
232590CC	9708-1000-368	1000' reel	227.59	214.99	202.33
234153CC	9708-U500-368	500' unreel box	119.49	113.22	106.98
234080CC	9708-U1000-368	1000' unreel box	227.59	213.79	202.33

14 AWG Stranded (19 x 27)

Part No.	Product No.	Description	1	5	10
232602CC	9717-100-368	100' reel	\$65.49	\$55.09	\$49.45
233429CC	9717-500-368	500' reel	255.69	242.25	218.04
232611CC	9717-1000-368	1000' reel	459.29	433.66	390.41

12 AWG Stranded (65 x 30)

Part No.	Product No.	Description	1	5	10
232629CC	9718-100-368	100' reel	\$126.35	\$106.13	\$100.82
232637CC	9718-500-368	500' reel	405.25	358.42	310.77
232645CC	9718-1000-368	1000' reel	849.99	799.99	749.99



Belden Hook-up Wire

UL AWM Style 1007

Belden hook-up and lead wire products are manufactured in a variety of materials, sizes, and designs to meet rigid industry and government specifications. Used in a wealth of applications including inter-connection circuits, internal wiring of computer and data processing equipment, appliances, and automotive. AWM, or Appliance Wiring Material, is Underwriter Laboratories' recognized covering of insulated wires and cables intended for internal wiring of appliances and equipment.

- Tinned copper • PVC insulated
- Rated 105°C, 300V; 600V peak for electronic circuits and electrical equipment
- Increments of 100' reels



Use the color code chart below to replace the "xx" when ordering

01 – Brown	02 – Red	03 – Orange	04 – Yellow	05 – Green
07 – Violet	08 – Gray	09 – White	10 – Black	13 – Dark blue

e.g. 234601CC – 2346 is the Jameco designation for 28 AWG stranded wire and 01 is for color brown

Part No.	Product No.	Description	1	5	10
2346xxCC	9928-100-xx	28 AWG (7 x 36) stranded	\$11.45	\$9.35	\$8.62
2345xxCC	9926-100-xx	26 AWG (7 x 34) stranded	12.29	11.13	10.10
2344xxCC	9923-100-xx	24 AWG (7 x 32) stranded	12.89	11.72	10.61
2343xxCC	9921-100-xx	22 AWG (7 x 30) stranded	14.79	13.51	12.26
2342xxCC	9919-100-xx	20 AWG (7 x 28) stranded	18.29	16.59	15.10
2341xxCC	9918-100-xx	18 AWG (16 x 30) stranded	20.39	19.19	16.79
2340xxCC	9916-100-xx	16 AWG (26 x 30) stranded	28.29	22.99	21.25



Bus Bar Hook Up Wire

Made in accordance with the performance requirements of Federal Specifications QQ-W343G.

- Solid tinned copper, single conductor
- Nominal outer diameter: 24 AWG – .021"; 22 AWG – .026"; 20 AWG – .033"

Part No.	Product No.	Description	1	5	10
234168CC	8022-100	24 AWG, 100' reel	\$10.49	\$9.49	\$8.63
234169CC	8022-1000	24 AWG, 1000' reel	57.29	46.31	42.75
234166CC	8021-100	22 AWG, 100' reel	11.65	9.39	8.49
234167CC	8021-1000	22 AWG, 1000' reel	70.69	60.26	55.73
234164CC	8020-100	20 AWG, 100' reel	13.29	11.67	10.55
234165CC	8020-1000	20 AWG, 1000' reel	93.69	79.85	73.84



Belden cable products are manufactured in a variety of gauge sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including PVC, PLENUM and High-Temperature versions to meet the technical requirements of many different types of systems. Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than other multi-conductor cables. For our complete line of Belden products, please visit www.Jameco.com/Belden.

• Chrome PVC jacket • Tinned copper • Twisted pairs • Tinned copper drain wire • Overall 100% BELDFOIL® shield (for shielded cables)

High-Temperature Control, Instrumentation Cables and Computer Cables

24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- Semi-rigid PVC insulation • Nominal DCR: 24Ω/m
- Nominal impedance: 75Ω • Color: chrome



9501 Series



9502 Series



9503 Series



9504 Series

Part No.	Product No.	No. of Pairs	Description	1	5	10
232709CC	9501-100-60	1	100' reel	\$12.65	\$10.36	\$9.50
232717CC	9501-500-60	1	500' reel	63.65	60.28	56.93
232725CC	9501-1000-60	1	1000' reel	120.55	113.86	105.62
234073CC	9501-U500-60	1	500' unreel box	63.65	60.28	56.93
234072CC	9501-U1000-60	1	1000' unreel box ..	120.55	113.86	107.16
232451CC	9502-100-60	2	100' reel	19.99	16.99	15.49
232469CC	9502-500-60	2	500' reel	99.99	83.99	77.49
232477CC	9502-1000-60	2	1000' reel	179.55	154.39	153.49
234075CC	9502-U500-60	2	500' unreel box	99.99	83.99	77.49
234074CC	9502-U1000-60	2	1000' unreel box ..	181.35	154.99	154.49
232485CC	9503-100-60	3	100' reel	25.99	21.99	20.39
232493CC	9503-500-60	3	500' reel	129.99	110.99	99.99
232506CC	9503-1000-60	3	1000' reel	244.99	214.99	199.99
234077CC	9503-U500-60	3	500' unreel box	129.99	110.99	99.99
234076CC	9503-U1000-60	3	1000' unreel box ..	244.99	214.99	199.99
232514CC	9504-100-60	4	100' reel	32.99	26.99	24.99
232522CC	9504-500-60	4	500' reel	159.99	133.99	122.99
232531CC	9504-1000-60	4	1000' reel	275.29	252.39	232.96
232549CC	9505-100-60	5	100' reel	36.99	29.99	27.99
232557CC	9505-500-60	5	500' reel	177.99	168.78	159.51
232565CC	9505-1000-60	5	1000' reel	329.99	318.80	299.99
234078CC	9505-U500-60	5	500' unreel box	179.99	151.99	139.99
234079CC	9505-U1000-60	5	1000' unreel box ..	329.99	318.80	299.99

Low Capacitance Computer Cables

24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire

- Datalene® insulation, chrome PVC jacket
- Nominal DCR: 24Ω/m
- Nominal impedance: 100Ω
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234178CC	1419A-100-60	2	100' reel	\$23.45	\$21.49	\$19.53
234085CC	1419A-500-60	2	500' reel	93.79	85.97	78.10
234084CC	1419A-1000-60	2	1000' reel	158.49	157.93	138.65

Audio, Control, and Instrumentation Cables Non-Plenum

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation
- Paper wrap
- Black PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: .138" • Color: black



Part No.	Product No.	No. of Pairs	Description	1	5	10
233111CC	8451-100-10	1	100' reel	\$19.45	\$17.65	\$16.04
233120CC	8451-500-10	1	500' reel	86.55	78.55	71.36
233138CC	8451-1000-10	1	1000' reel	155.79	142.83	131.84
234062CC	8451-U500-10	1	500' unreel box	86.49	78.55	71.36
234061CC	8451-U1000-10	1	1000' unreel box	155.79	142.83	131.84

Audio, Control, and Instrumentation Cables Non-Plenum (Cont'd)

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polypropylene insulation • PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: .135"
- Color: gray



Part No.	Product No.	No. of Pairs	Description	1	5	10
232688CC	9451-100-08	1	100' reel	\$23.75	\$19.95	\$18.95
232696CC	9451-500-08	1	500' reel	90.29	79.09	71.19
233411CC	9451-T1000-08	1	1000' reel	136.19	131.25	124.69

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .175"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234190CC	8761-500-60	1	500' reel	\$92.59	\$80.22	\$77.14
234189CC	8761-1000-60	1	1000' reel	173.75	159.25	147.65
234192CC	8761-U500-60	1	500' unreel box	93.59	84.90	77.14
234191CC	8761-U1000-60	1	1000' unreel box ..	148.55	137.39	135.16

22 AWG stranded (7 x 30) shielded with 24 AWG stranded TC drain wire

- Polypropylene insulation
- Nominal capacitance: 115pF/m
- Nominal outer diameter: .168"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234179CC	8723-100-60	2	100' reel	\$21.49	\$19.54	\$17.76
234181CC	8723-500-60	2	500' reel	107.99	97.71	88.79
234180CC	8723-1000-60	2	1000' reel	195.79	179.51	165.72
234183CC	8723-U500-60	2	500' unreel box	110.99	99.99	84.99
234182CC	8723-U1000-60	2	1000' unreel box ..	199.99	189.99	179.99

20 AWG stranded (7 x 28) unshielded

- Chrome PVC jacket
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234171CC	8205-U500-60	1	500' unreel box	\$69.99	\$59.22	\$58.51
234170CC	8205-U1000-60	1	1000' unreel box ..	121.39	109.99	105.93

20 AWG stranded (7 x 28) shielded with 22 AWG stranded TC drain wire

- Semi-rigid PVC insulation and overall chrome PVC jacket
- Nominal capacitance: 180pF/m
- Nominal outer diameter: .300"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234259CC	9402-100-60	2	100' reel	\$59.99	\$56.75	\$53.25
234261CC	9402-U500-60	2	500' unreel box	284.99	272.82	250.61
234260CC	9402-1000-60	2	1000' reel	546.75	501.22	462.63

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Tinned copper, twisted pair
- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .222"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234184CC	8760-100-60	1	100' reel	\$34.49	\$28.93	\$27.48
234186CC	8760-500-60	1	500' reel	117.75	106.82	97.05
234185CC	8760-1000-60	1	1000' reel	218.99	206.74	196.39
234188CC	8760-U500-60	1	500' unreel box	99.99	94.99	91.99
234187CC	8760-U1000-60	1	1000' unreel box ..	199.99	189.99	182.99



Paired Line Level Analog Audio Cable

20 AWG stranded (7 x 28) with 20 AWG stranded TC drain wire

- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: .204"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
234194CC	8762-100-60	1	100' reel	\$23.39	\$21.25	\$19.29
234196CC	8762-500-60	1	500' reel	108.59	102.86	97.15
234195CC	8762-1000-60	1	1000' reel	205.69	194.28	182.86
234198CC	8762-U500-60	1	500' unreel box	108.59	102.86	97.15
234197CC	8762-U1000-60	1	1000' unreel box ..	205.69	194.28	182.86

16 AWG stranded (19 x 29) shielded with 18 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: .313"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
233146CC	8719-100-60	1	100' reel	\$59.99	\$54.99	\$49.99
233154CC	8719-500-60	1	500' reel	198.65	180.24	163.88
233162CC	8719-1000-60	1	1000' reel	349.99	329.99	309.99
234064CC	8719-U500-60	1	500' unreel box	198.65	180.24	163.88
234063CC	8719-U1000-60	1	1000' unreel box	349.99	329.99	309.99

14 AWG stranded (19 x 27) shielded with 16 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .355"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
233171CC	8720-100-60	1	100' reel	\$59.99	\$51.55	\$48.97
233189CC	8720-500-60	1	500' reel	229.99	214.99	199.99
233197CC	8720-1000-60	1	1000' reel	429.99	399.99	389.99
234065CC	8720-U500-60	1	500' unreel box	229.99	214.99	199.99



Paired DataTwist® Category 5e UTP Cable

TIA/EIA – 568-B.2, unbonded-pair cable

- 4 pair unshielded • 24 AWG solid
- Maximum DCR per 100m – 9.38Ω
- Input impedance: 100Ω



1585A series:

- Plenum, FEP Teflon® insulation, Flamarrest® jacket
- Nominal outer diameter: .200"

1583A series:

- Non-plenum, polyolefin insulation, PVC jacket,
- Nominal outer diameter: .214"

Part No.	Product No.	Color	Description	1	5	10
234092CC	1585A-100-877	Natural	100' reel	\$29.99	\$28.49	\$26.99
234094CC	1585A-500-877	Natural	500' reel	129.99	114.99	99.99
234093CC	1585A-1000-877	Natural	1000' reel	199.99	189.99	179.99
234095CC	1585A-U1000-877	Natural	1000' unreel box ..	199.99	189.99	179.99
234096CC	1585A-U100-D15	Blue	100' unreel box	29.99	28.49	26.99
234098CC	1585A-U500-D15	Blue	500' unreel box	129.99	114.99	99.99
234097CC	1585A-U1000-D15	Blue	1000' unreel box ..	199.99	189.99	179.99
234089CC	1583A-100-06	Blue	100' reel	9.99	9.49	8.99
234176CC	1583A-500-06	Blue	500' reel	49.99	44.99	39.99
234090CC	1583A-1000-06	Blue	1000' reel	85.69	77.75	70.64
234091CC	1583A-U1000-06	Blue	1000' unreel box	85.69	77.75	70.64

SALE



Multi-Conductor Audio, Control, and Instrumentation Cables Non-Plenum

22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

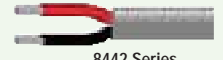
- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: .199"
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
233234CC	8771-100-60	3	100' reel	\$29.99	\$25.95	\$24.65
233242CC	8771-500-60	3	500' reel	99.49	94.31	89.07
233251CC	8771-1000-60	3	1000' reel	188.85	178.14	167.66
234067CC	8771-U500-60	3	500' unreel box	99.49	94.31	89.07
234066CC	8771-U1000-60	3	1000' unreel box ..	188.85	178.14	167.66

22 AWG stranded (7 x 30) unshielded

- PVC insulation • Color: chrome



8443 Series



8444 Series



8445 Series

Part No.	Product No.	Conductors	Description	1	5	10
232995CC	8442-100-60	2	100' reel	\$11.99	\$10.99	\$9.99
233007CC	8442-500-60	2	500' reel	51.59	48.91	46.19
233015CC	8442-1000-60	2	1000' reel	96.45	92.38	85.69
234054CC	8442-U500-60	2	500' unreel box	51.59	48.91	46.19
234053CC	8442-U1000-60	2	1000' unreel box	96.45	92.38	85.69
233023CC	8443-100-60	3	100' reel	15.69	14.25	12.94
233031CC	8443-500-60	3	500' reel	72.75	68.91	65.09
233040CC	8443-1000-60	3	1000' reel	137.79	130.17	120.75
234056CC	8443-U500-60	3	500' unreel box	72.75	68.91	65.09
234055CC	8443-U1000-60	3	1000' unreel box ..	137.79	130.17	120.75
233058CC	8444-100-60	4	100' reel	19.99	18.21	16.54
233066CC	8444-500-60	4	500' reel	92.99	88.07	83.19
233074CC	8444-1000-60	4	1000' reel	176.19	166.35	154.31
234058CC	8444-U500-60	4	500' unreel box	92.99	88.07	83.19
234057CC	8444-U1000-60	4	1000' unreel box ..	176.19	166.35	154.31
233082CC	8445-100-60	5	100' reel	25.15	22.76	20.69
233091CC	8445-500-60	5	500' reel	111.99	101.80	93.33
233103CC	8445-1000-60	5	1000' reel	220.25	207.99	192.96
234060CC	8445-U500-60	5	500' unreel box	111.99	101.80	93.33
234059CC	8445-U1000-60	5	1000' unreel box ..	220.25	207.99	192.96

20 AWG stranded (7 x 28) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: .218"
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
234253CC	8772-U500-60	3	500' unreel box ..	\$132.79	\$120.77	\$110.69
234252CC	8772-U1000-60	3	1000' unreel box ..	241.49	221.39	204.35

18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: .246"
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
233200CC	8770-100-60	3	100' reel	\$59.99	\$54.99	\$49.99
233218CC	8770-500-60	3	500' reel	165.65	150.29	136.55
233226CC	8770-1000-60	3	1000' reel	299.99	276.09	254.84
234083CC	8770-U500-60	3	500' unreel box	165.65	150.29	136.55
234082CC	8770-U1000-60	3	1000' unreel box ..	299.99	276.09	254.84

Belden® Cable Now at Jameco!

Professionals don't take chances when it comes to cables, so here's great news. Now you can get your Belden cables from Jameco. The undisputed leader in quality cabling, Belden is the cable of choice for critical applications like Internet, intranet and communication network backbones. We offer the Belden cable of your choice in reels ranging from 100' to 1,000'. You'll find a wide variety of cable types, stranded and solid core, single and multi-conductor, coax, and more. And you'll find them all at very competitive prices, with our fast, efficient service at no extra charge.

Call for OEM pricing

RG Type Bulk Coaxial Cable

RG58/U & RG58A/U (50Ω): Nom. cap.: 27pF/ft.; center resist.: 10.4Ω/1kft. @ 77°F
 RG59/U (75Ω): Nominal capacitance: 19pF/ft.; center resist.: 16.5Ω/1kft. @ 77°F
 RG174/U (50Ω): Nominal capacitance: 30.8pF/ft.; center resist.: 97Ω/1kft. @ 77°F

• Prepackaged and priced in increments of 100' or 1000'

Part No.	Cross Ref. No.	Description	100 ft.	1000 ft.
102226CC	RG58/U	For ethernet, oscilloscopes (solid 20AWG)	\$11.99	\$90.00
116898CC	RG58A/U	For ethernet, oscilloscopes (stranded 20AWG)	18.99	150.00
102218CC	RG59/U	For CATV & video patch cords (solid 22AWG)	12.99	110.00
112037CC	RG174/U	For ethernet, oscilloscopes (stranded 26AWG)	18.99	169.00

Solid Hook-Up Wire – 22 AWG

• Temp. range: -55°C to +105°C • Passes UL VW-1 flame test
 • MIL-W-16878D type B • Wt.: 100' (0.3 lbs.); 1000' (3.8 lbs.)
 • For use with breadboards such as the JE20 series, pg 225

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
36767CC	122BE/C	Blue	\$5.49	36775CC	122BE/K	Blue	\$39.99
36791CC	122BK/C	Black	5.49	36804CC	122BK/K	Black	39.99
36821CC	122G/C	Green	5.49	36839CC	122G/K	Green	39.99
36855CC	122R/C	Red	5.49	36863CC	122R/K	Red	39.99
36880CC	122W/C	White	5.49	36898CC	122W/K	White	39.99
36919CC	122Y/C	Yellow	5.49	36927CC	122Y/K	Yellow	39.99

Modular Telephone Cable – 28 AWG

• Color coded conductors • Flat modular cable
 • PVC jacket • Gray • 7 x 43 stranded

Part No.	Cross Ref. No.	Conductors	100 ft.	1000 ft.	5000 ft.
103430CC	MTC4	4	\$3.49	\$30.00	\$140.00
103448CC	MTC6	6	7.49	50.00	235.00
103450CC	MTC8	8	9.99	62.00	265.00

2-Conductor Stranded Power/Speaker Cable – 24 AWG

• Black wire with white polarity stripe
 • Temperature rating: 20°C to 60°C
 • Stranded copper wire (7 x 32) • Operating voltage: 300V

Part No.	Cross Ref. No.	Wt. (lbs.)	100 ft.	Part No.	Cross Ref. No.	Wt. (lbs.)	1000 ft.
100280CC	224BK/C	0.8	\$5.59	100298CC	224BK/K	7.8	\$39.95

Category 5 Network Cable

• 100MHz • 8C • 4 twisted pairs • UTP
 • Insulation: polyethylene • Nom. OD.: 0.189"
 • Nom. impedance: 100Ω

Solid: uses modular plug P/N 119343CC, pg 83

Stranded: uses modular plug P/N 79281CC, pg 83

• Prepackaged and priced in increments of 25', 100' or 1000'

24 AWG UTP Category 5 Enhanced – 350MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225CC	Solid (gray)	\$4.99	\$17.00	\$100.00
176233CC	Stranded (gray)	5.99	21.00	180.00
201582CC	Stranded (blue)	5.99	18.00	160.00

24 AWG UTP Category 5 – 100MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
118130CC	Stranded (gray) (7/32 AWG)	\$5.95	\$19.35	\$164.50

Multiconductor Shielded Computer Communication Cable – 24 AWG

• Stranded copper wire, multi-colored insulation
 • Insulated with polyvinyl chloride (PVC)
 • Voltage rating: 300V • Color: gray • 24 AWG (7 x 32 AWG)
 • Shielded 100% w/ aluminum mylar • Drain wire
 • Prepackaged and priced in increments of 25', 100' or 1000'

Part No.	Cross Ref. No.	Conductors	Diameter	25 ft.	100 ft.	1000 ft.
31860CC	SC4	4	0.20"	\$4.75	\$17.00	\$140.00
31878CC	SC9	9	0.23"	11.25	35.00	270.00
31843CC	SC15	15	0.28"	14.75	49.00	430.00
31851CC	SC25	25	0.37"	22.25	71.00	590.00

UL 1430 Stranded Hook-up Wire

• Temperature rating: 105°C • Voltage: 300V • 18/20 AWG
 • Average wall thickness: .016 • Sold in 100' rolls

Part No.	Gauge	Color	Strands	Dia. (in.)	Dia. (mm)	1	10	25
307918CC	18	Black	19 x 30	.082	2.083	\$12.95	\$11.65	\$10.49
307926CC	18	Red	19 x 30	.082	2.083	12.95	11.65	10.49
305015CC	18	Orange	7 x 26	.082	2.083	12.95	11.65	10.49
305023CC	18	Yellow	7 x 26	.082	2.083	12.95	11.65	10.49
304995CC	20	Yellow	19 x 32	.071	1.803	12.95	11.65	10.49
305007CC	20	Gray	19 x 32	.071	1.803	12.95	11.65	10.49
304979CC	20	Blue	7 x 28	.070	1.778	12.95	11.65	10.49
304987CC	20	Gray	7 x 28	.070	1.778	12.95	11.65	10.49
307897CC	20	Black	7 x 28	.070	1.778	12.95	11.65	10.49
307900CC	20	Red	7 x 28	.070	1.778	12.95	11.65	10.49

Twisted Pair Cable – 24 AWG

• PVC insulation • Use for hook up wire • Stranded tinned wire (7 x 32)
 • Reduced EMI • Wt.: 100' (0.5 lbs.); 1000' (4.7 lbs.) • 80°C • 300 V

Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
105911CC	224GW/C	Green/white	\$5.49	105806CC	224GW/K	Green/white	\$44.95
173147CC	224RW/C	Red/white	5.49	173155CC	224RW/K	Red/white	44.95
173163CC	224BW/C	Black/white	5.49	173171CC	224BW/K	Black/white	44.95

Kynar™ Wire Wrap Wire – 30 AWG

• Assorted color coded insulation • Used for prototyping
 • Color coded Kynar™ (Polyvinylidene Fluoride) insulation
 • Silver plated copper (solid conductor) • UL 1423
 • Temperature: -40°C to +125°C • See pg 100 for sockets
 • Wire wrap tools, pg 212 • Passes UL VW-1 flame test

Part No.	Color	Wt. (lbs.)	100 ft.	Part No.	Color	Wt. (lbs.)	1000 ft.
22541CC	Blue	0.1	\$4.95	22550CC	Blue	0.6	\$29.95
22576CC	Black	0.1	4.95	22584CC	Black	0.6	29.95
22630CC	Red	0.1	4.95	22648CC	Red	0.6	29.95
22664CC	White	0.1	4.95	22672CC	White	0.6	29.95
22605CC	Green	0.1	4.95	22613CC	Green	0.6	29.95
22699CC	Yellow	0.1	4.95	22701CC	Yellow	0.6	29.95

Gray Flat Ribbon Cable – 28 AWG

• Single edge red stripe for pin 1 orientation
 • Insulation: polyvinyl chloride (PVC) • 28 AWG (7 x 36) • Center spacing: 0.05"
 • Voltage rating: 300V • Stranded copper wire • Temp. rating: -20°C to +80°C
 • Prepackaged and priced in increments of 10', 25', 100' or 500'

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
135538CC	171-10	10	\$1.49	\$3.20	\$11.50	\$47.50
37671CC	171-16	16	2.19	5.00	16.00	70.00
37719CC	171-20	20	3.99	6.25	16.00	65.00
37760CC	171-25	25	3.89	8.75	25.00	110.00
37807CC	171-26	26	3.49	8.00	25.00	120.00
37840CC	171-34	34	4.25	9.25	32.00	120.00
37911CC	171-37	37	5.89	11.75	32.00	125.00
37920CC	171-40	40	7.39	17.50	48.00	215.00
37954CC	171-50	50	6.75	14.50	49.00	210.00
103481CC	171-60	60	8.95	19.75	65.00	285.00

Multicolor Flat Ribbon Cable – 28 AWG

• Standard 10-color repeat sequence • 28 AWG (7 x 36)
 • Center spacing: 0.05" • Voltage rating: 300V
 • Temp. rating: -20°C to +80°C • Stranded copper wire
 • Prepackaged and priced in increments of 10', 25', 100' or 500'

Part No.	Cross Ref. No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
112547CC	28RC10	10	\$1.95	\$4.50	\$17.50	\$70.00
105671CC	28RC16	16	3.25	7.25	24.00	100.00
105689CC	28RC20	20	3.95	9.00	30.00	125.00
105697CC	28RC25	25	6.29	14.25	49.95	219.95
105700CC	28RC34	34	6.99	14.75	49.00	225.00
105726CC	28RC40	40	8.69	19.55	69.49	299.95
105718CC	28RC50	50	10.95	24.95	85.95	384.95

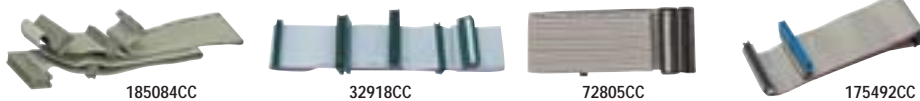


UL 1007 Stranded Hook-Up Wire 300 Volts

- 80°C • PVC insulation • CSA: TR-64
- 22 AWG (7x30)¹; 20 AWG (10x30)²; 18 AWG (16x30)³
- Temperature range: -40°C to +80°C • Sold in 100' rolls

Part No.	Cross Ref.	Color	Wt. (lbs.)	1	5	Part No.	Cross Ref.	Color	Wt. (lbs.)	1	5
126084CC	223SBK/C ¹	Black	0.4 ...	\$3.39	\$3.19	310893CC	UL1007-20-GR-C ²	Green	1.0 ...	\$4.95	\$4.75
126033CC	223SR/C ¹	Red	0.4 ...	3.39	3.19	310914CC	UL1007-20-YL-C ²	Yellow	1.0 ...	4.95	4.75
126076CC	223SW/C ¹	White	0.4 ...	3.39	3.19	310922CC	UL1007-20-BL-C ²	Blue	1.0 ...	4.95	4.75
310851CC	UL1007-22-GR-C ¹	Green	1.0 ...	3.39	3.19	125786CC	183SBK/C ³	Black	0.8 ...	5.79	5.55
310877CC	UL1007-22-YL-C ¹	Yellow	1.0 ...	3.39	3.19	125735CC	183SR/C ³	Red	0.8 ...	5.79	5.55
310885CC	UL1007-22-BL-C ¹	Blue	1.0 ...	3.39	3.19	125751CC	183SW/C ³	White	0.8 ...	5.79	5.55
125840CC	203SBK/C ²	Black	0.6 ...	4.95	4.75	310931CC	UL1007-18-GR-C ³	Green	1.0 ...	5.79	5.55
125794CC	203SR/C ²	Red	0.5 ...	4.95	4.75	310949CC	UL1007-18-YL-C ³	Yellow	1.0 ...	5.79	5.55
125831CC	203SW/C ²	White	0.5 ...	4.95	4.75	310957CC	UL1007-18-BL-C ³	Blue	1.0 ...	5.79	5.55

Disk Drive Cables



Part No.	Description	Cable Length	1	10	100
185084CC	34-pin header socket ribbon cable for floppy drive	25" Quantity SAVE	\$1.19	\$.99	(\$.75)
32918CC	34-pin header socket ribbon cable for floppy to card	23"	3.49	2.99	(2.25)
72805CC	Two 40-pin header socket ribbon cable for IDE drive	18"	3.69	3.14	(2.35)
175492CC	40-pin header socket ribbon cable for ultra DMA66/100	17"	6.95	6.25	5.49

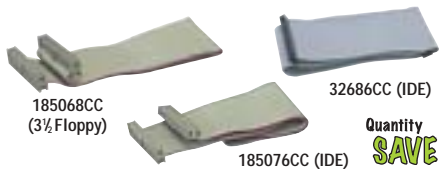
Internal and External SCSI Cables for Complete Connectivity



- For PC/XT/AT and compatibles • All lines connected

Part No.	Description	1	10	100
32715CC	50-pin header socket ribbon cable SCSI-I (18")	\$3.95	\$3.49	\$2.95
137550CC	68-pin header internal ribbon cable SCSI-III (27")	12.49	11.25	10.15
118084CC	Male 50-pin Centronics to male HPDB50 cable SCSI-I to SCSI-II (6')	\$14.95 11.29	10.25	9.35
118076CC	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (6')	17.95	15.95	13.95

Internal Computer Ribbon Cables



Part No.	Conductors	Length	1	10	100
185068CC	34	9.0" ...	\$2.95	\$2.51	\$1.88
185076CC	40	14.0" ...	.79	.65	(.49)
32686CC	40	18.0" ...	3.95	3.49	2.95

PC/XT/AT & PS/2 Keyboard Extension Cables

- Color: beige
- 114981CC/112045CC/:
- 5-pin DIN male-to-female
- 28548CC/111053CC:
- 6-pin mini DIN female-to-male

Part No.	Description	1	10	100
114981CC	PC/XT/AT 6' non-coiled	\$1.99	\$1.69	(\$1.27)
112045CC	PC/XT/AT 10' non-coiled ...	3.95	3.36	(2.52)
28548CC	PS/2 6' non-coiled	4.35	3.89	3.49
111053CC	PS/2 10' non-coiled	5.49	4.99	4.39

Ribbon Cable Assemblies

- Metal connector
- 300V rating
- 105°C rating
- 28 AWG flat cable
- Tin-plated contacts

Part No.	Description	1	10	100
12407CC	4' DB25 M-F	\$4.49	\$3.95	\$3.59
208581CC	6' DB9 M-F	3.95	3.55	3.19

AT-to-PS/2 and PS/2-to-AT Keyboard Adapter Cables

- 28003CC:
- Connects AT-type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN
- 85500CC/310789CC:
- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connectors

Part No.	Length	Color	1	10	100
28003CC	6.5"	Beige	\$3.95	\$3.49	\$3.15
85500CC	11.3"	Beige	5.39	4.85	4.39
310789CC	7.5" NEW	Beige	3.95	3.49	3.15

Our Computer Section starts on page 176.

3.5" Disk Drive Power Adapter Cable

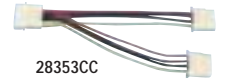
- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies



Part No.	Length	AWG	1	10	100
28396CC	3.5"	22	\$2.49	\$2.25	\$1.95

3.5" & 5.25" Disk Drive Power Splitters

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females



Part No.	Drive	AWG	Length	1	10	100
28353CC	5.25"	18	5'	\$2.95	\$2.69	\$2.39
277528CC	5.25"	20	6'	2.85	2.59	2.25
72303CC	3.5"	22	5'	2.75	2.49	2.19

ATX Power Supply 15" Extension Cable

- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply
- 15"L x 18 AWG (wires)



Part No.	Mfr. Cross Ref. No.	1	10	100
170237CC	ATX-400-RV	\$6.49	\$5.85	\$5.29

IEEE 1284 Parallel/ Serial High Speed Cables

IEEE 1284 is the standard in high speed printing. Compatible with bidirectional communication data flow resulting in speeds up to 10 times faster than conventional applications.

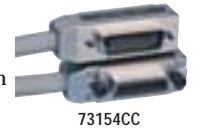


- Double shielded with 28 AWG stranded twisted pair inner conductors
- Molded shells, PVC plastic • Weight: 0.6 lbs.
- Color: beige (P/N 130067CC); black (P/N 161630CC); gray (P/N 223845CC)

Part No.	Description	1	10
130067CC	6' DB25 M-Cent. parallel 36M ...	\$11.95	\$10.95
223845CC	6' DB25 M-Cent. parallel 36M ...	11.95	10.95
161630CC	10' DB25 M-M serial cable	14.95	13.49

IEEE 488 Cables

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends. • Color: gray



Part No.	Description	Wt. (lbs.)	1	10	25
73154CC	1 meter	0.8 ..	\$36.49	\$32.79	\$29.49
115781CC	2 meter	1.2 ...	37.95	34.19	30.95
115801CC	4 meter	2.0 ...	38.95	36.19	31.95

Macintosh® Printer Cables

Part No.	Description	1	10	50
10604CC	6' mini DIN8M	\$4.95 \$3.29	\$3.15	\$2.99
130024CC	10' mini DIN8M	5.99	5.39	4.85

RGB Video Cables

- 75Ω coaxial cable; 6' or 10'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male
- Weight: 0.9 lbs.



SALE

Part No.	Description	1	10	25
73648CC	6' cable (black)	\$19.95	\$16.99	\$12.75
118068CC	10' cable (black)	\$23.35	19.85	14.89

Serial Null Modem Cables

- Molded type connectors
- Color: gray
- 181403CC/180697CC Pin outs: 1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7
- 181438CC Pin outs: 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial printer null modem)
- 180582CC Pin outs: 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20: 7-8; (Serial printer null modem)
- 180742CC Pin outs: 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8



Part No.	Description	Wt. (lbs.)	1	10	50
181403CC	6' DB9 F to DB9 F	0.3	\$5.69	\$5.09	\$4.59
180697CC	10' DB9 F to DB9 F	0.4	6.79	6.09	5.49
181438CC	6' DB25 M to DB9 F	0.4	4.95	4.49	3.95
180582CC	10' DB25 M to DB9 F	0.4	6.69	6.05	5.45
180742CC	10' DB25 F to DB9 F	0.5	7.39	6.65	5.99

VGA Monitor Cables

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDDB15 male to male



Part No.	Description	1	10	100
66173CC	6' monitor cable	\$6.49	\$5.89	\$5.29
148523CC	10' monitor cable	6.95	6.25	5.99

9-Pin Monitor Cable

- For monochrome, RGB, EGA and multisync monitors
- Connects video card to monitor
- IBM PC/XT and higher compatibles



Part No.	Description	1	10	100
66157CC	6' DB9 M-M	\$4.45	\$3.95	\$3.55

VGA Monitor Extension Cables

- Extends VGA monitor cable; HDDB15 male-to-female
- IBM PC/XT and higher compatibles
- 134041CC: • HDDB15 female with hex nuts and HDDB15 male with thumbscrews
- 66165CC/148531CC: • Thumbscrews on each end



Part No.	Description	1	10	100
134041CC	6' screws/hex nuts	\$4.49	\$3.95	\$3.49
66165CC	6' thumbscrews	6.59	5.95	5.35
148531CC	10' thumbscrews	7.49	6.79	5.99

DA15 Extension Cables

- Molded connectors
- Straight through
- Thumbscrews
- Color: gray (237032CC: black)



Part No.	Description	Length	1	10	100
181286CC	DA15 M-M	6'	\$5.49	\$4.95	\$4.45
181358CC	DA15 M-F	6'	5.49	4.95	4.45
237032CC	DA15 M-F	8'	6.99	5.95	4.45

DB25-to-Centronics Parallel Printer Cables

- Molded and fully shielded DB25 male and 36-pin Centronics male connectors
- IBM PC/XT and higher compatibles

Quantity **SAVE**



Part No.	Description	Wt. (lbs.)	1	10	100
28716CC	6' straight	0.4	\$4.69	\$4.25	\$3.85
223845CC	6' straight	0.6	11.95	10.95	10.95
123781CC	10' straight	0.6	5.95	5.09	3.79
164777CC	10' right angle*	0.7	4.95	4.45	3.95
28708CC	15' straight	0.8	5.95	5.09	3.79
101899CC	25' straight	1.1	5.95	5.09	3.79

* Centronics right angle

37-Pin Straight Through Cable Adapters

180611CC



181294CC



- Molded connectors
- Color: gray
- Weight: 0.9 lbs.

Part No.	Description	1	10	100
180611CC	6' DC37 M-M	\$6.95	\$6.29	\$5.65
181294CC	6' DC37 M-F	5.95	5.49	4.95

Monitor/Mouse/Keyboard Cables

- 6' or 32'
- HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard, and DB9 male/female for mouse



Part No.	Description	Wt. (lbs.)	1	10
141284CC	6' cable	1.6	\$22.95	\$19.95
141276CC	32' cable	4.8	39.95	35.95

Switch Box Adapter Cables

- 177261CC: Male to male non-coiled cable for P/N 79177CC switch box, pg 185
- 114913CC: Male to male coiled cable for P/N 114155CC switch box, pg 185
- 174772CC: Male to male
- 174908CC/205655CC: Male to male non-coiled
- 112627CC: Male to male non-coiled cable for P/N 79177CC switch box, pg 185

Quantity **SAVE**



Part No.	Description	Length	1	10	50
114913CC	5-pin DIN	5' (gray)	\$4.95	\$4.49	\$3.95
177261CC	6-pin mini DIN	2' (gray)	2.95	2.55	1.89
174772CC	6-pin mini DIN	6' (black)	4.95	4.25	3.19
174908CC	6-pin mini DIN	6' (gray)	5.75	5.15	4.65
112627CC	6-pin mini DIN	10' (beige)	7.95	7.25	6.49
205655CC	6-pin mini DIN	25' (beige)	8.95	7.95	6.95

DB9 Extension Cables



25700CC



- All lines connected straight through
- 132345CC/196365CC: • DB9 female to DB9 female cable with thumbscrews
- 25700CC/148515CC/199638CC: • DB9 male to DB9 female cable with thumbscrews
- 181665CC: • DB9 male to DB9 male cable

Part No.	Description	1	10	100	1000
132345CC	6' F-F	\$4.95	\$4.49	\$3.95	\$3.49
199638CC	6' M-F (black)	4.49	3.95	3.49	2.95
25700CC	6' M-F	4.95	4.49	3.95	3.49
196365CC	10' F-F	6.95	6.25	5.59	4.95
148515CC	10' M-F	7.49	6.79	5.99	4.95
181665CC	10' M-M	6.95	6.25	5.59	4.95

9-Pin Test Cable

- DB9 M to DB9 F (6')
- Pin outs: 1-3, 2-2, 4-5

Quantity **SAVE**



Part No.	Description	1	10	100
162915CC	DB9 male to DB9 female	\$2.95	\$2.51	\$1.88

DB9-to-DB25 AT-Adapter Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors

Quantity **SAVE**



Part No.	Description	1	10	100
109583CC	1' serial, beige	\$4.35	\$3.95	\$3.49
189333CC	3' serial, beige	3.95	3.39	2.55
207790CC	4' serial, beige	2.35	2.15	1.95
31721CC	6' serial, beige	3.89	3.55	3.15
191361CC	6' serial, gray	4.39	3.99	3.15
155521CC	10' serial, beige	3.95	3.55	3.15

DB25 Extension Cables

- All lines connected straight through
- Use to lengthen your standard serial cable or for switch box applications
- Thumbscrews to secure connectors
- Color: gray; except P/Ns 174001CC/175290CC: black*

Quantity **SAVE**



Part No.	Description	Wt. (lbs.)	1	10	50	100
281551CC	3' M-M	0.4	\$4.45	\$4.25	\$3.99	\$3.79
174001CC	3' M-M*	0.6	4.79	4.35	3.89	3.49
65787CC	6' M-M	0.5	6.49	5.89	5.29	4.89
39538CC	10' M-M	0.7	6.95	6.29	5.05	3.69
179979CC	15' M-M	1.2	6.95	6.29	5.05	3.65
67070CC	25' M-M	1.4	10.95	9.95	8.95	7.95
180435CC	50' M-M	3.6	14.95	13.49	11.95	9.95
164291CC	3' M-F	0.4	4.29	3.89	3.49	2.95
175290CC	3' M-F*	0.4	2.95	2.69	2.25	1.59
163133CC	5' M-F	0.6	5.29	4.75	4.29	3.85
67256CC	6' M-F	0.6	6.45	5.79	5.25	4.69
39511CC	10' M-F	0.7	6.95	6.29	5.05	3.69
177279CC	15' M-F	1.0	9.49	8.55	7.69	6.25
101995CC	25' M-F	1.4	11.95	10.79	9.69	7.95
181201CC	50' M-F	3.2	17.95	14.39	10.79	8.09
224266CC	6' F-F	0.7	4.95	3.95	2.95	2.09

USB-A Female Cables & Bracket

- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors • 8" long



Part No.	Description	1	10	25
144813CC	USB-A panel mount ...	\$6.95	\$6.25	\$5.59



USB-to-Centronics Printer Cable

- Full compliance with the USB spec V.1.0
- USB-A male to 36-pin male centronics connector
- Supports true bidirectional communication
- Applicable to standard and bidirectional printers

SALE



Part No.	Description	1	10	25
155352CC	6' USB cable	\$26.95	\$24.25	\$21.55

USB Cable Extender

- Extends distance between USB devices by up to 16'
- Complies with USB electrical and timing specifications
- Compatible with high and low speed USB devices
- Interface: USB-A male to USB-A female
- Size: (adapter): 2.8"L x 1.5"W x 0.6"H • Wt.: 1.0 lb.



New Lower Prices

Includes: USB-A male to USB-B female cable

Part No.	Description	1	10	25
191441CC	16' USB extender ...	\$29.49	\$26.55	\$23.49

USB to Serial Adapter with Prolific Chipset

This USB serial adapter provides an external Plug-and-Play RS-232 port for computers, notebooks, laptops, and handheld computing devices. Provides high-quality serial connections at transfer rates of more than 500kbps for cell phones, PDAs, digital cameras, modems and ISDN terminal adapters. Since it is a USB connection it eliminates the hassles of traditional serial port connections and IRQ conflicts.



- Frees existing RS-232 ports for other uses
- Supports RS-232 serial interface, automatic hand-shake mode, remote wake-up & power management
- Provides a 96-byte buffer for each upstream and downstream data transfer • Weight: 1.5 lbs.
- Full compliance with USB specification v 1.1
- 7" cable with DB25 male connector and 14" cable with USB-A connector • Size: 2.7"L x 1.6"W x 0.7"H

System requirements: Windows®98/2000, USB host controlled installed in the system

Includes: 3.5" software and manual

Part No.	Description	1	5
213066CC	USB-A to serial converter	\$29.95	\$27.95

USB Gender Adapters

Part No.	Description	Dimensions	1	10	25
169383CC	USB-A male to USB-B female	1.3"L x 0.4"W	\$2.69	\$2.49	\$2.25
169375CC	USB-A female to USB-B male	1.7"L x 0.6"W	2.69	2.49	2.25
316806CC	USB-A female to USB-A female NEW	1.5"L x 0.7"W	2.69	2.49	2.25
316793CC	USB-A male to USB-A male NEW	2.0"L x 0.6"W	2.69	2.49	2.25
316822CC	USB-B female to USB-B female NEW	1.4"L x 0.7"W	2.69	2.49	2.25
316814CC	USB-B male to USB-B male NEW	2.0"L x 0.5"W	2.69	2.49	2.25

New



316793CC



316822CC

Retractable USB and Firewire Cables

New Lower Prices

SALE



226368CC 226384CC 226405CC

Carrying all those extra cables for your computer peripherals such as printers, cameras, zip drives, external hard drives, adds weight and gets tangled in your computer bag. With these retractable USB and Firewire cables, you can easily store them in an inside pocket of your bag, plus they are tangle free. Just pull the cable on both ends of the spool and you have a high quality cable that extends to over 2'. Simply pull again and it retracts back into its housing.

USB cables

Part No.	Description	1	5
226368CC	USB A - B	\$9.95 \$6.45	\$5.85
226384CC	USB A - Mini 4-pin	\$9.95 6.45	5.85

Firewire cables

Part No.	Description	Price
226405CC	4-pin M - M, 400Mbps	\$6.75
227424CC	6-pin M - 4-pin M 400Mbps	6.75
227459CC	6-pin M - M 400Mbps	6.75

IEEE 1394 Firewire Cables



175821CC 175839CC 175847CC

Connect your computer to the latest high speed Firewire peripherals.

- IEEE-1394 compliant • UL approved
- Molded connectors

4-pin Male to 4-pin Male

Part No.	Description	1	10	25
222631CC	3' cable black	\$5.99	\$5.39	\$4.99
175821CC	6' cable black	7.99	6.99	5.99
222244CC	10' cable black	9.99	8.99	7.99
222252CC	15' cable black	12.99	11.69	10.49

4-pin Male to 6-pin Male

Part No.	Description	1	10	25
222623CC	3' cable black	\$5.99	\$5.39	\$4.99
175839CC	6' cable black	7.99	6.99	5.99
222288CC	10' cable black	9.99	8.99	7.99
222236CC	15' cable black	12.99	11.69	10.49

6-pin Male to 6-pin Male

Part No.	Description	1	10	25
222615CC	3' cable black	\$5.99	\$5.39	\$4.99
175847CC	6' cable black	7.99	6.99	5.99
222201CC	10' cable black	9.99	8.99	7.99
222210CC	15' cable black	12.99	11.69	10.49

USB 2.0 Cables



USB-A (M) to USB-A (M)

USB-A (M) to USB-B (M)

USB-A (M) to USB-A (F)

- Higher transfer rate up to 480Mbps
- Backward compatible w/ USB 1.1 pro



USB-A Male to USB-A Male

Part No.	Description	1	10	25
229681CC	6' cable beige	\$1.65	\$1.49	\$1.39
222033CC	6' cable black	1.65	1.49	1.39
229551CC	6' cable clear	1.65	1.49	1.39
229690CC	10' cable beige	1.89	1.75	1.65
222041CC	10' cable black	1.89	1.75	1.65
229569CC	10' cable clear	1.89	1.75	1.65
229702CC	15' cable beige	2.85	2.59	2.49
222050CC	15' cable black	2.85	2.59	2.49
229577CC	15' cable clear	2.85	2.59	2.49

USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711CC	3' cable beige	\$1.55	\$1.39	\$1.29
222607CC	3' cable black	1.55	1.39	1.29
229585CC	3' cable clear	1.55	1.39	1.29
229729CC	6' cable beige	1.65	1.49	1.39
222009CC	6' cable black	1.65	1.49	1.39
229593CC	6' cable clear	1.65	1.49	1.39
229737CC	10' cable beige	1.89	1.75	1.65
222017CC	10' cable black	1.89	1.75	1.65
229606CC	10' cable clear	1.89	1.75	1.65
229761CC	15' cable beige	2.85	2.59	2.49
222025CC	15' cable black	2.85	2.59	2.49
229614CC	15' cable clear	2.85	2.59	2.49

USB-A Male to USB-A Female

Part No.	Description	1	10	25
229770CC	6' cable beige	\$1.65	\$1.49	\$1.39
222068CC	6' cable black	1.65	1.49	1.39
229622CC	6' cable clear	1.65	1.49	1.39
229788CC	10' cable beige	1.89	1.75	1.65
222076CC	10' cable black	1.89	1.75	1.65
229631CC	10' cable clear	1.89	1.75	1.65
229796CC	15' cable beige	2.85	2.59	2.49
222084CC	15' cable black	2.85	2.59	2.49
229649CC	15' cable clear	2.85	2.59	2.49

USB 1.1 Cables

USB-A Male to USB-A Male

Part No.	Description	1	10	25
196904CC	2' cable	\$1.35	\$1.15	\$0.86

USB-A Male to USB-B Male

Part No.	Description	1	10	25
308726CC	5' cable (black) NEW	\$3.89	\$3.49	\$3.15
169359CC	6' cable	4.95	4.49	3.95

169359CC

USB Keyboard Adapter

USB to PS/2

- USB-A female to 6-pin mini DIN male (PS/2)



Part No.	Description	1	10	25
316831CC	USB-A to PS/2 NEW	\$1.79	\$1.59	\$1.39

Category 5e Network Cables

- UTP
- 8P8C
- 4 pair
- 24 AWG (7 x 43) stranded
- "Snagless" boot
- Color coded for easy wire tracing
- High-flexibility
- Achieve optimum system performance



Category 5e (350MHz)

Part No.	Length	Color	1	10	100
168292CC	3 ft.	Gray	\$1.79	\$1.49	\$1.39
168305CC	7 ft.	Gray	2.99	2.59	2.39
168313CC	15 ft.	Gray	5.29	4.39	3.99
168321CC	25 ft.	Gray	7.99	6.79	6.39
201777CC	3 ft.	Red	1.79	1.49	1.39
201785CC	7 ft.	Red	2.99	2.59	2.39
201793CC	15 ft.	Red	6.95	5.95	4.45
201806CC	25 ft.	Red	7.99	6.79	6.39
201697CC	3 ft.	Black	1.79	1.49	1.39
201700CC	7 ft.	Black	2.99	2.59	2.39
201718CC	15 ft.	Black	5.29	4.39	3.99
201726CC	25 ft.	Black	7.99	6.79	6.39
201734CC	3 ft.	Blue	1.79	1.49	1.39
201742CC	7 ft.	Blue	2.99	2.59	2.39
201751CC	15 ft.	Blue	5.29	4.39	3.99
201769CC	25 ft.	Blue	7.99	6.79	6.39
201814CC	3 ft.	Yellow	1.79	1.49	1.39
201822CC	7 ft.	Yellow	2.99	2.59	2.39
201831CC	15 ft.	Yellow	5.29	4.39	3.39
201849CC	25 ft.	Yellow	7.99	6.79	6.39

Category 5 (100MHz)

Part No.	Length	Color	1	10	100
281261CC	7 ft.	Gray	\$2.49	\$2.39	\$2.25
281455CC	25 ft.	Gray	4.35	4.15	3.95
277641CC	6 ft.	Red	2.49	2.25	1.99
277659CC	12 ft.	Black	2.99	2.69	2.45
203051CC	10 ft.	Blue	2.75	2.15	1.59
277675CC	12 ft.	Blue	2.99	2.69	2.45
277616CC	6 ft.	Yellow	2.49	2.25	1.99
277667CC	12 ft.	Yellow	2.99	2.69	2.45

Bulk Modular Network Cables

- 8 Conductor
 - UTP
 - 4 twisted pairs
 - Insulation: polyethylene
 - Nom. OD.: 189"
 - Nominal impedance: 100Ω
- Solid:** uses modular plug P/N 119343CC, pg 83
Stranded: uses modular plug P/N 79281CC, pg 83
- 118130CC/201646CC:** 7/32 AWG
- Prepackaged and priced in increments of 25', 100' or 1000'



24 AWG UTP Category 5e – 350MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225CC	Solid (gray)	\$4.99	\$17.00	\$100.00
201603CC	Solid (blue)	4.99	14.00	90.00
176233CC	Stranded (gray)	5.99	21.00	180.00
201574CC	Stranded (red)	5.99	18.00	160.00
201591CC	Stranded (black)	5.99	18.00	160.00
201582CC	Stranded (blue)	5.99	18.00	160.00
201566CC	Stranded (yellow)	5.99	18.00	160.00

24 AWG UTP Category 5 – 100MHz

Part No.	Description	25 ft.	100 ft.	1000 ft.
118130CC	Stranded (gray)	\$5.95	\$19.35	\$164.50
201646CC	Stranded (black)	5.49	15.00	140.00

CAT 5e Crossover Cables

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP



Part No.	Description	1	10	100
302041CC	6' cable RJ45	\$3.75	\$3.39	\$3.05
169261CC	10' cable RJ45	6.95	6.25	5.59

Keystone-Type Wall Plates

- Size: 2.8"W x 4.5"H

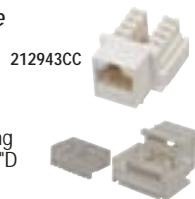
Part No.	No. of ports	Color	1	10	100
195549CC	1	Ivory	\$1.25	\$1.15	\$0.99
195557CC	2	Ivory	1.25	1.15	.99
195565CC	3	Ivory	1.25	1.05	.79
195573CC	4	Ivory	1.25	1.05	.79
212978CC	1	White	1.25	1.15	.99
212994CC	2	White	1.25	1.15	.99
212986CC	3	White	1.25	1.15	.99
212960CC	4	White	1.25	1.15	.99
213508CC	Hole Filler	White	.29	.25	.19



Modular RJ-11 & RJ-45 Jacks

Punchdown Keystone Type

- Removable jacks used in wall plates (clip in)
 - CAT 5e classification
 - Punchdown type wiring connections with color coding
 - Size: 0.57"W x 0.63"H x 1.23"D
- RJ45:** 8P8C **RJ11:** 6P6C



Part No.	Color	1	10	100
195590CC	Red	\$3.75	\$3.55	\$3.19
195602CC	Yellow	3.75	3.55	3.19
195611CC	Green	3.75	3.19	2.39
195629CC	Black	3.75	3.55	3.19
195637CC	Ivory	3.75	3.19	2.39
212951CC	Blue	3.75	3.55	3.19
212943CC	White	3.75	3.55	3.19

RJ11

Part No.	Color	1	10	100
213524CC	Black	\$3.75	\$3.55	\$2.99
213516CC	White	3.75	3.55	3.19

BNC/F-Type Jacks

- Removable jacks used in wall plates (see above)
- Clip on for easy installation on wall plates
- Keystone type



Part No.	Description	Color	1	10	100
195645CC	F-Type F to F	Ivory	\$1.39	\$1.29	\$1.19
224645CC	F-Type F to F	White	1.39	1.29	1.19
224637CC	BNC F to F	White	2.29	2.05	1.89

Order Anytime 24x7x365



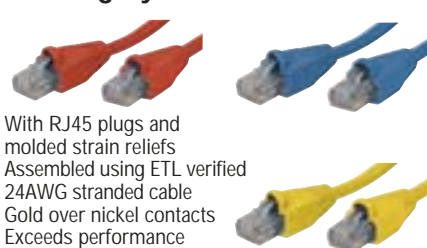
Phone 1-800-831-4242

Online www.Jameco.com

Fax 1-800-237-6848

Category 6 Network Cables

- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 Category 6 draft 8



Category 6

Part No.	Length	Color	1	10	50
219707CC	3 ft.	Gray	\$2.79	\$2.69	\$2.56
219715CC	7 ft.	Gray	3.99	3.87	3.68
219723CC	14 ft.	Gray	6.59	6.37	6.05
219731CC	25 ft.	Gray	9.39	8.92	8.47
219740CC	50 ft.	Gray	14.29	13.58	12.90
219854CC	3 ft.	Blue	2.79	2.69	2.56
219862CC	7 ft.	Blue	3.99	3.87	3.68
219871CC	14 ft.	Blue	6.59	6.37	6.05
219889CC	25 ft.	Blue	9.39	8.92	8.47
219897CC	50 ft.	Blue	14.29	13.58	12.90
220003CC	3 ft.	White	2.79	2.69	2.56
220011CC	7 ft.	White	3.99	3.87	3.68
220020CC	14 ft.	White	6.59	6.37	6.05
220038CC	25 ft.	White	9.39	8.92	8.47
220046CC	50 ft.	White	14.29	13.58	12.90
219900CC	3 ft.	Red	2.79	2.69	2.56
219918CC	7 ft.	Red	3.99	3.87	3.68
219926CC	14 ft.	Red	6.59	6.37	6.05
219934CC	25 ft.	Red	9.39	8.92	8.47
219942CC	50 ft.	Red	14.29	13.58	12.90
219803CC	3 ft.	Green	2.79	2.69	2.56
219811CC	7 ft.	Green	3.99	3.87	3.68
219820CC	14 ft.	Green	6.59	6.37	6.05
219838CC	25 ft.	Green	9.39	8.92	8.47
219846CC	50 ft.	Green	14.29	13.58	12.90
219758CC	3 ft.	Black	2.79	2.69	2.56
219766CC	7 ft.	Black	3.99	3.87	3.68
219774CC	14 ft.	Black	6.59	6.37	6.05
219782CC	25 ft.	Black	9.39	8.92	8.47
219791CC	50 ft.	Black	14.29	13.58	12.90
219951CC	3 ft.	Yellow	2.79	2.69	2.56
219969CC	7 ft.	Yellow	3.99	3.87	3.68
219977CC	14 ft.	Yellow	6.59	6.37	6.05
219985CC	25 ft.	Yellow	9.39	8.92	8.47
219993CC	50 ft.	Yellow	14.29	13.58	12.90

3M Tool-Less Modular RJ-45 Jack with Dust Door

A unique and simple CAT5e hardware component (TIA/EIA-568 B.2) utilizing the universally accepted keystone mount. It offers a quick and reliable tool-less connection as the eight conductors are effortlessly terminated in a single operation.

- UL verified TIA/EIA-568 B.2 CAT5e
- Tool-less connector
- Keystone mount • Integral shutter
- Top or bottom cable insertion
- Self-stripping contacts



Hot New Product!

Part No.	Product No.	1	10	100
263071CC	VOL-OCK5E-U-W	\$6.89	\$6.55	\$6.25



Modular Plugs



P = No. of positions C = No. of contacts
W/E = Western Electric type number

* Prepackaged: order in increments of 10, 100 or 1000 116610CC

Part No.	Description	W/E	1	10	100	1000
103491CC	4P4C (handset)	616	*	\$.11	\$.099	\$.089
79290CC	6P4C (RJ11)	623	*	.12	.11	.095
79273CC	6P6C (RJ11)	623	*	.22	.195	.18
79281CC	8P8C (RJ45) (for stranded wire)	641	.35	.28	.24	.20
119343CC	8P8C (RJ45) unshielded (for solid wire)	—	.49	.44	.35	.28
116610CC	8P8C (RJ45) shielded	—	1.09	.99	.89	.79
204222CC	8P8C (RJ45) shielded (for STP solid wire)	—	.95	.89	.79	.75
204231CC	8P8C (RJ45) shielded (for STP stranded wire)	—	1.55	1.49	1.15	.95
116601CC	8P8C (RJ45) shielded (for solid wire)	—	.99	.79	.65	.49
180646CC	10P10C (for stranded wire)	—	1.39	1.15	.82	.69



Modular Jacks



- Voltage rating: 150VAC max.
 - Contact current rating: 1.5A max. @ 25°C
 - Durability: 750 mating cycles • PC mount
- W/E = Western Electric type number

Part No.	Description	W/E	1	10	100
199620CC	4P4C (handset) .48"W	—	\$.36	\$.33	\$.30
115128CC	4P4C (handset) .395"W	—	.37	.34	.31
151765CC	6P4C (RJ11) side flange	AMP	.45	.43	.39
105945CC	6P4C (RJ11) top flange	623	.62	.56	.42
204206CC	6P4C (RJ11) lead wires	—	1.09	.99	.89
115836CC	6P6C (RJ11) side flange	—	.74	.67	.59
204177CC	6P6C (RJ11) dual	—	1.49	1.35	1.19
124038CC	6P6C (RJ11) 6" leads	—	1.25	1.15	.99
115844CC	8P8C (RJ45)	641	.48	.44	.40
204214CC	8P8C (RJ45) .81"L	—	1.19	1.09	.95
203449CC	8P8C (RJ45) shielded Pin spacing "A" = .055"	—	1.19	.99	.85



RJ45-Plug Color Caps (Boots)

Part No.	Color	10	100	500	1000
204409CC	Black	\$.14	\$.13	\$.12	\$.09
204388CC	Yellow	.14	.12	.098	.073
204353CC	Gray	.14	.13	.12	.095
204361CC	Blue	.14	.12	.098	.073
204425CC	Red	.14	.12	.098	.073
204396CC	Green	.14	.12	.098	.073
204370CC	Ivory	.14	.12	.098	.073

"EZ" RJ45 Connector

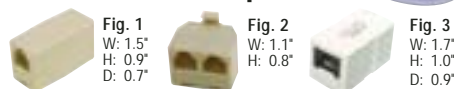
Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

- For solid or stranded wire • 8P8C plug
- Use standard modular crimping tool

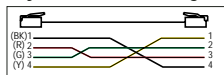
Part No.	Product No.	1	10	100	250
158115CC	RJ45 (8P8C) ..	\$1.75	\$1.58	\$1.42	\$1.25



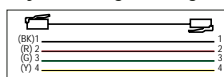
Modular Couplers and Adapters



Style 1 Reverse wiring for telephone systems



Style 2 Straight wiring for networking/printer sharing



Part No.	Description	Fig.	1	10	100
72207CC	6P4C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P4C), 2 female modular receptacles (6P4C) RJ11	2	\$.99	\$.89	\$.80
71757CC	6P6C modular coupler, Style 1, RJ11	1	.95	.86	.79
135087CC	6P6C modular coupler, Style 2, RJ11	1	.99	.89	.79
181091CC	6P6C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P6C), 2 female modular receptacles (6P6C) RJ11	2	.99	.89	.78
118501CC	8P8C modular coupler, Style 1, RJ45	1	1.85	1.75	1.55
135079CC	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023CC	8P8C modular coupler, Style 2 (for Cat. 5) RJ45	3	7.99	7.19	6.49

Modular Jack Boxes & Wall Plate

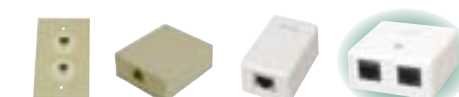
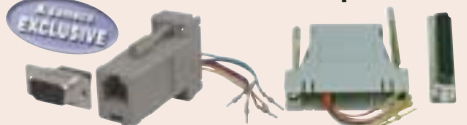


Fig. 1 W: 2.8" H: 4.5" (72311CC)
Fig. 2 W: 2.0" H: 2.2" (71651CC)
Fig. 3 W: 1.5" H: 2.4" (213031CC)
Fig. 4 W: 2.4" H: 2.4" (213049CC)

Part No.	Description	Fig.	1	10	100
72311CC	6P6C & 8P8C double wall jack plate w/ jacks (beige)	1	\$1.95	\$1.75	\$1.57
103464CC	6P4C adhesive jack RJ11 (beige)	2	1.39	1.19	1.09
71984CC	6P6C adhesive jack RJ11 (beige)	2	1.39	1.19	.99
71651CC	8P8C adhesive jack RJ45 (beige)	2	1.95	1.65	1.45
213031CC	8P8C adhesive jack RJ45 (single, white) (CAT 5e)	3	3.29	2.99	2.69
213049CC	8P8C adhesive jack RJ45 (dual, white) (CAT 5e)	4	4.15	3.75	3.39



RS-232-to-RJ11/RJ45 Modular Jack Adapters



Change your RS-232 port to a RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

Part No.	Description	1	10	100
204265CC	DB9 M to RJ11 (6P4C)	\$1.95	\$1.66	\$1.24
66181CC	DB9 M to RJ11 (6P6C)	2.59	2.35	2.09
66190CC	DB9 M to RJ45 (8P8C)	2.89	2.65	2.35
114737CC	DB9 F to RJ11 (6P4C)	1.95	1.79	1.59
66202CC	DB9 F to RJ11 (6P6C)	2.79	2.55	2.29
66211CC	DB9 F to RJ45 (8P8C)	2.99	2.69	2.45
204281CC	DB25 M to RJ11 (6P4C)	2.39	2.15	1.29
66229CC	DB25 M to RJ11 (6P6C)	2.95	2.35	1.99
66237CC	DB25 M to RJ45 (8P8C)	2.99	2.69	2.45
204273CC	DB25 F to RJ11 (6P4C)	1.95	1.75	1.55
66245CC	DB25 F to RJ11 (6P6C)	2.59	1.95	1.39
66253CC	DB25 F to RJ45 (8P8C)	2.89	2.59	2.29

Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 – 6P2C/6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

Style 1 – Reverse wiring for telephone systems

Style 2 – Straight wiring for networking/printer sharing



Part No.	Conn. Style	Type	Length	Pricing		
				1	10	100
189940CC	1	RJ11-6P2C	7ft.	\$.99	\$.84	\$.63
196226CC	1	RJ11-6P4C	7ft.	1.49	1.15	.86
115553CC	2	RJ11-6P4C	7ft.	1.25	1.09	.89
115545CC	1	RJ11-6P4C	25ft.	2.29	2.09	1.85
201232CC	2	RJ11-6P4C	35ft.	1.95	1.66	1.24
115588CC	1	RJ11-6P6C	7ft.	1.55	1.35	1.15
115617CC	2	RJ11-6P6C	7ft.	2.19	1.99	1.79
115676CC	2	RJ45-8P8C	7ft.	1.89	1.75	1.49

† Beige

Surface Mount Boxes

Category 5 and 5e

- RJ45 • 8P8C
- 100MHz
- Size: 2.6"L x 3.2"W x 1.2"H
- CAT 5e (except P/N 176073CC)

Part No.	Description	1	10	100
176073CC	Single jack (beige)	\$6.95	\$5.75	\$5.23
213022CC	Single jack (white)	6.95	6.25	5.59
176081CC	Dual jack (beige)	9.95	8.46	6.34
213014CC	Dual jack (white)	9.95	8.95	7.95

30-Day Money-Back Guarantee

If you're not satisfied, we'll take it back!
Details on page 246.

Call for OEM pricing

Nylon Cable Ties

Standard

- 70560CC
- Cable ties made from UL approved Nylon 66
- Temperature range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: clear (except P/N 182676CC)
- Sold in increments of 100 or 1000

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
70560CC	18	3.1 x 0.10	.025	.015
126543CC	18	4.0 x 0.10	.02	.014
182676CC	18*	4.75 x 0.13	.03	.025
182650CC	18	5.5 x 0.13	.035	.025
139150CC	18	8.0 x 0.10	.06	.04
182668CC	18	8.0 x 0.13	.075	.05
182684CC	18	8.0 x 0.18	.036	.033
70906CC	40	5.8 x 0.10	.035	.029
190756CC	40	10.0 x 0.14	.12	.086
190772CC	40	11.0 x 0.19	.10	.075
190764CC	40	13.0 x 0.14	.10	.075

* Black

Weather Resistant

- 104141CC
- Contain Carbonate A for greater resistance to ultra violet rays in outdoor use
- Color: black
- Sold in increments of 100 or 1000

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
139125CC	18	3.0 x 0.90	.045	.029
104141CC	18	4.0 x 0.10	.044	.029
104133CC	40	5.8 x 0.10	.047	.031
190781CC	40	8.0 x 0.13	.085	.065
190799CC	40	10.0 x 0.14	.10	.09
190801CC	40	13.0 x 0.14	.113	.088

Cable Tie Assortments

- Tensile strength: 18-50 lbs.
- 145701CC: 1000 pcs. (4"L); 10 colors
- 150412CC: 500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L), 5 colors

Part No.	Weight (lbs.)	1	10	50
145701CC	0.7	\$9.49	\$8.49	\$7.39
150412CC	1.7	13.95	11.49	9.95

Cable Tie Tool

- 2.5 - 5mm width (of cable)
- Tension adjustable
- Twist to cut surplus tie end
- Spring return action
- Plastic

Part No.	Description	1	10	100
182297CC	Cable tie tool	\$15.95	\$13.95	\$12.65

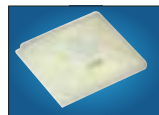
Opening an account is easy!!!

Corporate Customers

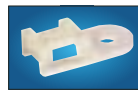
Call 1-800-831-4242
for details today.

Cable Tie Mounts and Cable Clamps

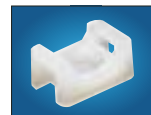
- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2
- Sold in increments of 10, 100 or 1000



182941CC/171213CC
71407CC/71394CC
71386CC



70594CC



182300CC/173761CC



182318CC/182376CC



182334CC/182342CC



173711CC/173729CC
173737CC/134754CC
173753CC

Part No.	Mfr. Cross Reference No.	Description	10	100	1000
182941CC	0505HC-101S	4-way cable tie mount, self adhesive, .75"D	.07	.055	.042
171213CC	HC-100	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.5" square	.15	.13	.094
71407CC	HC-101	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.9" square	.18	.16	.13
71394CC	HC-102	4-way cable tie mount, self adhesive, use w/ 0.2"W max., 1.1" square	.23	.19	.14
71386CC	HC-103	4-way cable tie mount, self adhesive, use w/ 0.4"W max., 1.1" square	.25	.19	.13
70594CC	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	.15	.09	.05
182300CC	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D	.17	.15	.14
173761CC	HC-1	Cable tie, saddle type, 0.6"L x 0.4"W	.15	.125	.075
182318CC	0519ATC-17	2-way adjustable tie mount, #6 flat head screw, 0.7"D	.26	.24	.225
182376CC	0519ATC-22	2-way adjustable tie mount, #6 flat head screw, 0.9"D	.261	.222	.166
182334CC	0520FC-1	Cable tie mount, self adhesive, 0.1"D	.17	.15	.12
182342CC	0520FC-2	Cable tie mount, self adhesive, 0.2"D	.15	.135	.122
173711CC	UC0	Cable clamp for 1/8" cable	.08	.027	.018
173729CC	UC0.5	Cable clamp for 3/16" cable	.035	.032	.019
173737CC	UC1	Cable clamp for 1/4" cable	.14	.09	.063
134754CC	B0375	Cable clamp for 3/8" cable	.08	.029	.018
173753CC	UC3	Cable clamp for 1/2" cable	.09	.033	.025

Nylon Cable ID Ties and Tabs



71061CC



135175CC

71061CC: Clear ID tab (0.98" x 0.31")

135175CC: Nylon cable tie ID marker

- Sold in increments of 10, 100 or 1000

Part No.	Size	10	100	1000
71061CC	4.0"L x 0.1"W	.085	.08	.072
135175CC	2.0"L x 0.8"W x .02"T	.22	.11	.08



162157CC

Cable Sleeve

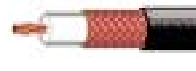
Clean Cut Expandable Sleeve

- Flame resistant
- Applications: protecting wires, cables and hoses
- Operating temp.: -70°C to 125°C
- Sold in spools of 25'

Part No.	Product No.	Actual/Expanded Dia.	1	10
162157CC	CCPT2X	.250"/.440"	\$15.95	\$14.95
162165CC	CCPT3X	.500"/.750"	17.95	14.49



See pages 74 - 77 for our complete selection of Belden cable and wire.



Pressure Sensitive Wire Marker

Easy release vinyl cloth markers feature a strong, pressure-sensitive adhesive, for long lasting bond on a wire or cable. Black non-smear legends on white background for easy identification.

- Convenient pocket-size booklet
- 10 sheets numbered 1 to 45 each sheet

Part No.	Product No.	1	10	100
216813CC	TCWM-3	\$12.95	\$11.05	\$8.25

Self Adhesive Wire Marker

- 90 markers per number
- Stick to wires for permanent identification
- Cloth tape label numbered 0-9
- Used after or before terminal

Part No.	Product No.	1	10
182262CC	0215WMB-1	\$9.95	\$8.95

3M Tape Wire Marker

- For marking wires with numerical sequence
- Self adhesive tapes
- Cloth tape label numbered 0-9
- Size: (tape) 96"L x 0.25"W

Part No.	Description	1	10
159231CC	Numerical tape dispenser	\$30.95	\$27.95

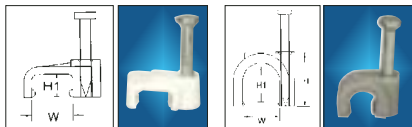
Cable Markers

- UL approved natural nylon
- 10 piece minimum

Part No.	Size	10	100	1000
182705CC	1.5"L x .75"W	.10	.09	.08
182713CC	2.5"L x 1.76"W	.26	.227	.17

Call for OEM pricing - we carry major manufacturers.

Nail-In Cable Clips



- Material: impact resistant PE
- With nails inserted
- Sold in increments of 100 or 1000

For telephone cords; white

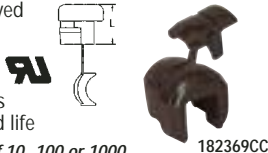
Part No.	Mfr. Cross Ref. No.	W x H x H1 (in.)	100	1000
190810CC	NF0.7	.22 x .22 x .12	\$.006	\$.005
190828CC	NF1.2	.24 x .21 x .15	.006	.005
190836CC	NF1.6	.31 x .31 x .20	.006	.005

For general round cables; gray

Part No.	Mfr. Cross Ref. No.	W x H x H1 (in.)	100	1000
190861CC	NCO.35N	.14 x .23 x .15	\$.022	\$.02
190887CC	NC1N	.24 x .35 x .26	.05	.02
190895CC	NC2N	.31 x .45 x .34	.015	.014
190908CC	NC3N	.39 x .53 x .41	.016	.015

Round-Type Strain Relief Bushings

- Material: UL approved nylon 66, 94V-2
- Color: black
- Used extensively for protecting cords and to prolong cord life
- Sold in increments of 10, 100 or 1000



Part No.	Cable Type	Lgth (in.)	10	100	1000
182351CC	SVI/SVT	.43	\$.05	\$.043	\$.04
182369CC	SJ/SJT; 16 AWG	.58	.18	.10	.085
182377CC	SJC; 18 AWG	.58	.24	.22	.20

Bushing Assembly Tool

- For use with strain relief bushings, above

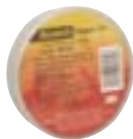


Part No.	Description	1	10	100
73470CC	Bushing tool	\$31.95	\$28.75	\$25.85

3M Super 33+ Electrical Tape

This tape provides flexibility and easy handling for all around performance. It combines PVC backing with excellent electrical insulating properties to provide primary electrical insulation for splices up to 600V and protective jacketing. Excellent resistance to UV rays, abrasion, moisture, copper corrosion, alkalis and acids, and is flame-retardant. Excellent all-weather performance in cold to 0°F (-18°C) and is designed to perform in a continuous temperature environment up to 220°F (105°C).

- UL listed and CSA certified
- 0.75" x 66'



Part No.	Product No.	1	10	25
285464CC	3M 06132	\$4.35	\$4.00	\$3.98

3M Hook and Loop Fastening System

Nylon hooks mesh with pliable loops. 1" wide strip with adhesive backing sticks instantly to many surfaces.

- Hook and loop: 1" x 15'



Part No.	Product No.	1	5	10
286897CC	3M 06481 (white)	\$31.09	\$29.99	\$28.35
286900CC	3M 06488 (black)	31.55	30.49	28.75

3M Dual Lock Fastening System

3M™ Dual Lock™ reclosable fasteners have been used extensively in transportation, electronics, business equipment, machinery, medical, sign and display markets. When the mushroom-shaped stems interlock, tensile strength is high enough to replace mechanical fasteners, yet you can readily open and close Dual Lock fasteners hundreds of times. High temperature and solvent resistant.

- Adhesive backing for strong bonds
- 5x stronger than conventional hook & loop fasteners
- Audible snap assures secure closure



Part No.	Product No.	1	5	10
288438CC	3M 06463 (clear)	\$74.95	\$71.19	\$67.65

3M Double-Sided Foam Tape

Used in a wide variety of applications, this tape features high-shear acrylic adhesive and high temperature resistance. Adheres securely to any surface with its double-sided adhesive. 1/8" thick open-cell urethane foam carrier. Ideal for many manufacturing applications.

- 1/8" thick
- 1" x 12'



Part No.	Product No.	1	5	10
285907CC	3M 4008	\$14.89	\$11.35	\$10.55

3M Tartan 1710 Electrical Tape

3M™ Tartan™ 1710 vinyl insulating tape offers good resistance to abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions (including ultraviolet).

- UL listed
- 0.75" x 60'
- Flame retardant



Part No.	Product No.	1	10	25
285587CC	3M 49656	\$.95	\$.89	\$.86

3M Vinyl Electrical Tape

5-pack Multi-Colored

3M #35 vinyl electrical color coding tape is used in phase identification, color coding leads, piping systems and for marking safety areas. UL Listed, CSA Certified, and flame-retardant. Excellent all-weather performance in cold to 0°F (-18°C) or hot to 220°F (105°C). 5 rolls to a pack with colors blue, green, red, yellow, and white.



Part No.	Product No.	1	5	10	25
287806CC	3M 10457	\$7.95	\$6.72	\$6.10	\$5.36

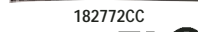
Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black



PVC Heat Shrink Tubing

- Shrink temp: 125°C
- Sold in 10' and 100' increments



Part No.	Dia. before (mm)	10 ft.	100 ft.
184721CC	.12" (3)	\$1.19	\$10.50
182730CC	.16" (4)	1.39	12.50
182748CC	.20" (5)	1.45	13.00
182756CC	.24" (6)	1.49	13.50
182764CC	.31" (8)	1.79	16.00
182772CC	.43" (11)	2.80	19.00
182781CC	.59" (15)	3.50	30.00

PVC Heat Shrink Flat Film

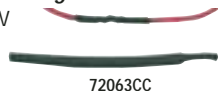
- Shrink temperature: 175°C
- Temperature range: -45°C to +125°C
- Precut 39" length; sold as 1 increment



Part No.	Flat	Unshrunk Cir. Dia.	Shrunk Cir. Dia.	1*	10*	100*
70631CC	5/16"	1/4"	1/8"	\$1.69	\$1.55	\$1.39
70623CC	1/2"	5/16"	3/16"	1.69	1.55	1.35
70666CC	13/16"	9/16"	1/4"	1.69	1.45	1.09

Polyolefin Heat Shrink Tubing

- Dielectric strength: 1300V
- Flame retardant
- Flexible
- Shrink temp.: 121°C
- Temperature range: -45°C to +125°C



* Precut 39" length; sold as 1 increment

Part No.	Before	After (Dia.)	1*	10*	100*
71327CC	1/16"	1/32"	\$.55	\$.46	\$.41
71870CC	3/32"	3/64"	.55	.45	.39
71280CC	1/8"	1/16"	.69	.59	.54
72063CC	1/4"	1/8"	.89	.72	.65
226245CC	3/8"	3/16"	1.09	.98	.88
216477CC	1/2"	1/4"	.99	.89	.85

3M Heat Shrink Tubing 102-Piece Kit

3M™ FP-301 is a heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C) continuous operation. FP-301 tubing is typically used as a shrink-fit electrical insulation over cable splices and terminations. It is also used for lightweight wire harness covering, wire marking, wire bundling, component packaging and fire resistant covering.



- Assorted pre-shrink sizes: 3/16" (30 pieces); 1/4" (28 pieces); 3/8" (20 pieces); 1/2" (14 pieces); 3/4" (6 pieces); 1" (4 pieces)
- Pre-cut to 6" lengths

Part No.	Description	1	5	10	50
285481CC	Heat shrink kit	\$56.95	\$53.70	\$50.99	\$48.45

Don't worry about backorders.
Over 99% of our products are in stock!

We'll Send It Today!

Just place your order by 6PM EST
for same business day shipment.

Quantity SAVE Audio/Video Cables and Adapters

RCA Cables

Part No.	Description	1	10	25
215474CC	3' RCA male plug - female jack (gray)	\$.89	\$.79	\$.69
228443CC	3' stereo RCA (2) male to (2) male plugs, gold plated	1.49	1.39	1.29
183311CC	4' RCA male to male plug (black)	.99	.89	.79
206973CC	4' RCA male to male plug (yellow)	.99	.89	.79
183302CC	4' RCA (2) male to (2) male plugs (red/black)	1.75	1.49	1.09
106374CC	6' RCA male to male plug	1.19	1.00	.75
228419CC	6' mono RCA male plug to female jack	1.65	1.45	1.25
228486CC	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.15	1.05
228451CC	6' RCA stereo (2) male to (2) male plugs, gold plated	1.79	1.69	1.59
308734CC	6' RCA stereo (2) male to (2) male plugs (red/white)	1.65	1.49	1.35
228401CC	6' RCA stereo (2) male plugs to 3.5mm stereo male plug	1.55	1.39	1.25
236865CC	6' RCA (3) male to (3) male plugs, gold plated	2.39	2.07	1.55
184882CC	6' RCA (3) male to (3) male plugs, low loss	1.95	1.79	1.59
228427CC	10' RCA female jack to male plug	2.35	1.95	1.79
29348CC	10' RCA male to male plug (yellow)	1.69	1.55	1.35
228460CC	12' RCA stereo (2) male to (2) male plugs, gold plated	2.09	1.89	1.75
225980CC	12' RCA (3) male to (3) male plugs, gold plated	4.49	3.89	2.89
225998CC	20' RCA (3) male to (3) male plugs, gold plated	7.99	6.79	5.09
228435CC	25' mono RCA male to male plug, nickel plated	2.19	2.09	1.99
228478CC	25' RCA stereo (2) male to (2) male plugs, gold plated	2.39	2.29	2.19

3.5mm Audio Patch Cables

Part No.	Description	1	10	25
228494CC	6' 3.5mm stereo male to male plug	\$1.39	\$1.19	\$.99
228515CC	6' 3.5mm stereo male plug to female jack	1.49	1.35	1.25
228507CC	12' 3.5mm stereo male to male plug	1.69	1.49	1.29
228523CC	12' 3.5mm stereo male plug to female jack	1.65	1.49	1.35
319206CC	27' 3.5mm mono male to male plug	1.09	.94	.89

S-VHS Cables and Adapters

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, and DVD players

228558CC/228566CC: 95% spiral wound shield S-VHS/audio conductors

Part No.	Description	1	10	25
228591CC	6' S-VHS video cable, gold plated	\$2.15	\$1.95	\$1.79
228558CC	6' S-VHS audio-video cable, gold plated	12.95	11.65	10.49
228566CC	12' S-VHS audio-video cable, gold plated	14.95	13.45	12.15
228603CC	12' S-VHS video cable, gold plated	2.65	2.35	2.10
228611CC	25' S-VHS video cable, gold plated	4.05	3.85	3.65
229809CC	S-video 4-pin mini DIN female to female jack	2.85	2.59	2.29
229391CC	S-video male plug to RCA video female jack	5.39	4.85	4.39

75Ω "F" Connectors/Adapters/Terminators

Part No.	Product No.	Fig.	Description	1	10	50	100
291581CC	200-016	1	Perma-seal, RG-59 coax	\$.69	\$.59	\$.55	\$.49
291531CC	200-028	1	Perma-seal, RG-6 coax	.69	.59	.55	.49
291709CC	200-050	2	F-jack to jack (nickel)	.65	.55	.475	.38
291725CC	200-051	2	F-jack to jack (gold)	.95	.85	.79	.75
295371CC	200-053	3	F-panel mount jack to jack (nickel)	.65	.55	.475	.38
295380CC	200-107	4	F-R/A jack to plug (nickel)	1.59	1.39	1.16	.95
295398CC	200-103	5	F-jack to push-on plug (nickel)	.85	.69	.627	.523
295435CC	200-104	5	F-jack to push-on plug (gold)	1.15	.99	.95	.89
295531CC	200-117	6	F-jack to 3.5mm mono plug (nickel)	1.65	1.35	1.13	.93
295451CC	200-075	7	F-plug terminator	.55	.45	.35	.25
309657CC	200-045	8	RCA female to F male adapter	1.75	1.35	.97	.87



Video/Audio Patch Cables

Part No.	Description	1	10	25
228216CC	3' stereo video patch cable, gold plated	\$1.19	\$1.13	\$1.07
228574CC	25' stereo video patch cable, gold plated	6.99	6.29	5.65
228582CC	50' stereo video patch cable, gold plated	12.59	11.35	10.19

VCR Cable

Part No.	Description	1	10	25
228224CC	6' stereo VCR cable	\$2.39	\$2.29	\$2.15

3.5mm Female Jacks and Male Plugs



- Threaded screw on housing
- 1mm diameter solder eyelets
- Shield crimp tabs

231159CC/231167CC: With spring strain relief

Part No.	Mfr. Cross Ref. No.	Description	1	10	100	1000
109495CC	PJ035PM	Mono F jack, 3.5mm hole size	\$.45	\$.40	\$.36	\$.32
165729CC	PJ0354	Mono F jack, 3.5mm hole size	.69	.59	.49	.39
101151CC	PJ1035	Mono male plug, plastic	\$.55 .49	.38	.35	.29
147344CC	PJ1035L	Mono male plug, plastic	\$.55 .49	.38	.35	.29
231159CC	AP-336	Mono male plug, metal	1.25	1.19	1.09	.95
231175CC	AP-340	Stereo male plug, plastic	.55	.43	.36	.32
231167CC	AP-343	Stereo male plug, metal	1.79	1.60	1.45	1.30

75Ω "F" Connectors

Part No.	Product No.	Fig.	Description	1	10	50	100
289828CC	200-030	1	RG-59 crimp-on nickel plated	\$.22	\$.20	\$.17	\$.14
289908CC	200-031	1	RG-59 crimp-on gold plated	.45	.43	.41	.39
289887CC	200-035	2	RG-6 crimp-on nickel plated	.22	.20	.17	.14
289916CC	200-036	2	RG-6 crimp-on gold plated	.45	.43	.41	.39
290001CC	200-039	3	RG-6 twist-on nickel plated	.79	.69	.45	.32
289975CC	200-040	3	RG-59 twist-on nickel plated	.79	.69	.45	.32
289924CC	200-038	4	RG-6 crimp-on weatherproof seal, brass	.69	.59	.49	.39
314510CC	200-024	4	RG-6 crimp-on weatherproof sea	.55	.46	.37	.33

Happen to find a like product at a lower print-advertised price?
We'll beat that price by 10% right down to our cost!

RCA Audio Adapters

Part No.	Description	1	10	25	100
228283CC	RCA female jack to mono 1/4" male plug	\$.99	\$.89	\$.69	\$.55
228312CC	RCA male plug to 1/4" mono female jack	1.25	1.10	.79	.69
228267CC	RCA female to female jack coupler, gold plated	.95	.79	.55	.45
159441CC	RCA female to female jack coupler, metal	1.15	.99	.87	.65
228259CC	RCA male to male plug adapter	1.59	1.25	1.14	.85
228339CC	RCA F jack to 3.5mm mono M plug, gold plated	1.49	1.29	1.20	.90
228291CC	RCA F jack to 3.5mm mono M plug, nickel plated	1.25	1.09	.89	.75
215458CC	RCA male plug to 3.5mm mono female jack	.89	.75	.69	.59

RCA Y-Cables

196808CC	5' Y-cable 1/8" stereo F jack to (2) RCA M plugs	\$.75	\$.30	\$.27	\$.26
139037CC	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	2.25	1.99	1.79	1.61
228371CC	6' Y-cable (2) RCA M plugs to RCA F jack	.99	.89	.80	.72
228355CC	6' Y-cable RCA M plug to (2) RCA F jacks	1.29	1.15	1.06	.79
228380CC	6' Y-cable (2) RCA F jacks to 3.5mm stereo plug	1.95	1.76	1.59	1.19
215466CC	8' Y-cable RCA M plug to (2) RCA M plugs	2.25	2.04	1.84	1.38

3.5mm Audio Adapters

228275CC	3.5mm stereo female to female jack	\$.55	\$.49	\$.44	\$.365
196082CC	3.5mm stereo female jack to 1/4" stereo male plug	.59	.49	.31	.28
309665CC	3.5mm stereo F jack to 3.5mm mono M plug	1.05	.68	.542	.542
228304CC	3.5mm stereo M plug to (2) 1/4" stereo F jacks	2.05	1.85	1.25	1.15
228339CC	3.5mm mono M plug to RCA F jack, gold plated	1.49	1.29	1.20	.90
228291CC	3.5mm mono M plug to RCA F jack, nickel plated	1.25	1.09	.89	.75
215458CC	3.5mm mono female jack to RCA male plug	.89	.75	.69	.59

3.5mm Y-Cables

139037CC	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	\$2.25	\$1.99	\$1.79	\$1.61
228398CC	6' Y-cable (2) 3.5mm stereo female jacks to 3.5mm stereo male plugs	1.95	1.65	1.35	1.25
228380CC	6' Y-cable (2) RCA F jacks to 3.5mm stereo M plug	1.95	1.76	1.59	1.19

Digital Audio Optical Cables and Adapters

Connect your DVD, CD, Mini Disc, DAT, game console or other digital audio equipment for clear, full and richly detailed sound. For the ultimate listening experience, connect to your Dolby Digital® or DTS® home theater equipment.

- Low-loss core provides low distortion & high signal-to-noise ratio
- Clad reflecting layer prevents phase error and noise, achieving high-fidelity transmission effect
- Corrosion-resistant, precise collar to ensure long lasting quality

Cables

Part No.	Description	1	2	5
228654CC	3' TOSLINK-TOSLINK	\$3.79	\$3.35	\$2.85
228689CC	3' TOSLINK-mini plug	9.95	8.95	7.95
228662CC	6' TOSLINK-TOSLINK	4.75	4.29	3.79
228697CC	6' TOSLINK-mini plug	16.65	14.99	13.49
228671CC	12' TOSLINK-TOSLINK	7.29	6.59	5.95
228700CC	12' TOSLINK-mini plug	23.29	20.95	18.85

Adapters

230615CC	TOSLINK - mini plug adapter	\$2.79	\$2.59	\$2.49
230607CC	TOSLINK - TOSLINK coupler	1.89	1.79	1.69

RG-6/RG-59 75Ω Patch Cables

Type	Length (ft.)	Part No. (Black)	Part No. (White)	287152CC	287232CC	5
RG-6	3	286977CC	287232CC	1.69	1.59	
RG-59	3	85585CC	—	1.05	.95	
RG-6	6	287101CC	287241CC	2.29	2.15	
RG-6	12	287128CC	287259CC	3.69	3.49	
RG-6	25	287152CC	287267CC	6.99	6.65	
RG-6	50	287179CC	287275CC	13.49	12.75	
RG-6	75	287208CC	287291CC	18.99	18.15	
RG-6	100	287224CC	287304CC	24.99	23.75	

Audio Adapters and Cables



Component Video and Audio Cables

Component video cables connect the latest video equipment like DVD players equipped with component video output jacks to LCD or plasma televisions, projectors and other component video devices.

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provides excellent strain relief, easy installation, and identification
- 100%, .012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality

Part No.	Description	1	2	5
228620CC	6' component video RGB cable	\$12.35	\$11.15	\$9.99
228638CC	12' component video RGB cable	23.75	21.39	19.25
228646CC	25' component video RGB cable	33.95	30.59	27.49
229403CC	6' component video RGB and stereo audio cable	17.29	15.59	13.99
229411CC	12' component video RGB and stereo audio cable	33.25	29.95	26.95
229420CC	25' component video RGB and stereo audio cable	47.55	42.79	38.55

STEREN Perma Seal RCA/BNC Connectors

Use the color code chart below to replace the "xx" when ordering

02 - Red	04 - Yellow	05 - Green	09 - White	10 - Black	13 - Blue
----------	-------------	------------	------------	------------	-----------

e.g. 292102CC - 2921 is the Jameco designation for RCA RG-59 plug and 02 is for color red

Part No.	Description	1	10
2922xxCC	RCA RG-6 plug	\$1.59	\$1.49
2921xxCC	RCA RG-59 plug	1.59	1.49
2924xxCC	BNC RG-6 plug	1.89	1.79
2923xxCC	BNC RG-59 plug	1.89	1.79

RCA Plugs

- High-quality plastic and metal housing RCA plugs

Gold plated metal housing w/ spring strain relief for 6.7mm cables

Part No.	Description	1	10	25	100
229876CC	Black	\$1.89	\$1.69	\$1.55	\$1.39
229868CC	Red	1.89	1.69	1.55	1.39
229884CC	White	1.89	1.69	1.55	1.39
230287CC	Yellow	1.89	1.69	1.55	1.39

Plastic screw-on cover w/ integral cable protection

Part No.	Description	1	10	25	100
229921CC	Black (5 pk)	\$1.15	\$1.05	\$.91	\$.85
229930CC	Red (5 pk)	1.15	1.05	.91	.85
229913CC	White (5 pk)	1.19	1.09	.95	.89
229892CC	Yellow (5 pk)	1.19	1.09	.95	.89

RCA Jacks

- Standard RCA jacks for audio and video signals

Part No.	Fig.	Description	Dimensions	1	10	100	1000
220581CC	1	PCB mount, white	.44"W x .56"D x .48"H ..	\$.45	\$.31	\$.28	\$.22
220556CC	1	PCB mount, red	.44"W x .56"D x .48"H ....	.45	.31	.28	.22
220572CC	1	PCB mount, black	.44"W x .56"D x .48"H ....	.45	.31	.28	.22
220564CC	1	PCB mount, yellow	.44"W x .56"D x .48"H ....	.45	.31	.28	.22
112475CC	1	PCB mount, red	.44"W x .58"D x .48"H ....	.39	.35	.31	.19
169501CC	2	PCB mount, black	.40"W x .85"D x .50"H ....	.39	.35	.32	.26
237016CC	3	PCB mnt., 2x3 grid, red/wht/yel	2.0"W x .45"D x 1.10"H ....	.89	.79	.69	.65
159484CC	4	Panel mount, black	.84"W x .38"H .....	.49	.39	.33	.24
172339CC	4	Panel mount, red	.84"W x .38"H .....	.49	.39	.31	.23
319231CC	5	Panel mount, 1x2 grid, red/wht	2.1"W x .48"D x .78"H ....	.79	.69	.69	.69
319249CC	5	Panel mount, 1x4 grid, red/blk	2.9"W x .48"D x .98"H ..	1.19	.99	.99	.99
319257CC	6	Panel mount, 2x2 grid, red/wht	2.0"W x .48"D x 1.38"H ..	1.19	.99	.99	.99
319265CC	6	Panel mount, 2x3 grid, red/wht	2.3"W x .48"D x 1.41"H ..	1.29	1.15	1.15	1.15
319071CC	6	Panel mount, 2x4 grid, red/blk	3.0"W x .49"D x 1.40"H ..	1.39	1.19	1.19	1.19

See page 109 for Power Jacks and Plugs.

Switchcraft - For Highest Quality Connections

Switchcraft®

Audio Plugs and Jacks



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
281885CC	780	1	3.5mm mono audio plug, metal	14.1mm x 41.1mm x 5.3mm ID ..	\$3.89	\$2.94	\$2.69	\$2.45
281869CC	750	2	3.5mm mono audio plug, plastic	14.0mm x 41.5mm x 5.7mm ID ...	2.49	2.17	1.99	1.81
281834CC	41	3	3.5mm audio jack	7.8mm x 5.9mm	1.29	1.22	1.07	1.02
297019CC	125	4	3.5mm mono jack, metal	31.75mm x 10.3mmDia.	5.19	4.54	4.08	4.01
297035CC	142A	5	3.5mm mono jack, plastic	21.03mmL x 9.52mmW x 12.7mmH ..	2.19	2.04	1.93	1.83
297297CC	850	6	2.5mm mono phono audio plug, plastic	25.8mm x 6.35mmDia.	2.59	2.28	2.12	2.12
297625CC	TR2A	7	2.5mm mono audio jack, metal	12.6mm	2.09	1.94	1.72	1.72
281789CC	297	8	1/4" stereo phone audio plug, metal	73.7mm x 7.6mm ID	4.59	3.82	3.19	2.91
281771CC	280	9	1/4" mono phone audio plug, metal	73.7mm x 7.6mm ID	3.15	2.82	2.58	2.36
281762CC	267	10	1/4" stereo phone audio plug, plastic	73.7mm x 7.6mm ID	4.25	3.22	2.95	2.69
281754CC	250	11	1/4" mono phone audio plug, plastic	73.7mm x 7.6mm ID	2.55	2.39	2.13	1.94
281746CC	12B	12	1/4" stereo phone audio jack	14.7mm x 9.1mmDia.	1.49	1.39	1.32	1.24
281738CC	11	13	1/4" mono phone audio jack	12.8mm x 9.1mmDia.	1.39	1.29	1.19	1.15
296892CC	12A	12	1/4" mono phono audio jack, metal	—	1.79	1.43	1.33	1.33
296905CC	13B	12	1/4" mono phono audio jack, metal	—	4.15	3.76	3.37	3.37
296930CC	42A	12	1/4" mono phono audio jack, metal	15.9mm x 12.7mmDia.	1.75	1.60	1.52	1.48
296956CC	70	9	1/4" mono phono audio plug, metal	—	6.79	5.48	4.93	4.44
297001CC	121	14	1/4" mono phono audio jack, metal	63.5mm x 12.7mmDia.	7.15	5.87	5.22	4.74
297043CC	151	15	1/4" mono phono audio jack, metal	57.15mm x 15.87mmDia.	5.99	4.65	4.30	4.30
297060CC	170	16	1/4" mono phono audio jack, metal	69.4mm x 17.46mm Dia.	7.89	5.99	5.58	5.32
297107CC	226	17	1/4" mono phono audio jack, RA, metal	46.4mm x 15.9mmDia.	3.89	3.70	3.23	2.93
296913CC	14B	12	1/4" stereo phono audio jack, metal	—	4.19	3.81	3.42	3.42
297051CC	152B	15	1/4" stereo phono audio jack, metal	57.15mm x 15.87mmDia.	5.75	5.11	4.74	4.74
297158CC	290	18	1/4" stereo phono audio jack, metal	42.9mm x 12.7mmDia.	6.19	4.78	4.38	4.38
297123CC	236	17	1/4" stereo phono audio jack, RA, metal	46.4mm x 15.9mmDia.	4.89	4.83	4.43	4.11
297140CC	238	19	1/4" stereo phono audio jack, RA, metal	41.28mm x 19.84mmDia.	5.55	4.19	3.90	3.90
296972CC	111	20	1/4" mono phono audio jack, plastic	34.8mm x 15.87mmDia.	1.45	1.31	1.25	1.21
297537CC	N111	20	1/4" mono phono audio jack, plastic	34.8mm x 15.87mmDia.	1.69	1.54	1.47	1.43
302543CC	240	11	1/4" mono phono audio jack, black	—	2.99	2.72	2.59	2.55
297115CC	228	21	1/4" mono phono audio jack, RA, metal	42.1mm x 25.4mmDia.	4.25	3.25	3.02	3.02
296981CC	112B	20	1/4" phono audio jack, 3C, plastic	34.8mm x 15.87mmDia.	1.45	1.31	1.25	1.21
297027CC	131	14	1/4" phono audio jack, 3C, plastic	63.5mm x 12.7mmDia.	10.49	7.82	6.88	6.43
297271CC	515	22	1/4" jack cover	—	7.15	5.48	5.08	5.08



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21



Fig. 22

Switchcraft is a leading supplier and manufacturer of electronic and electromechanical components for the audio, video, telecommunication, computer, medical, military, appliance, transportation and instrumentation industries. Their components include jacks, connectors, jack panels, plugs, jackfields, patch cords, power plugs, switches, EAC power receptacles and molded cable assemblies.

Switchcraft®

Microphone (XLR) Connectors



Fig. 1

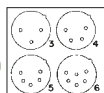


Fig. 2



Fig. 3



Fig. 4

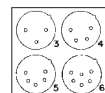


Fig. 5

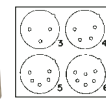


Fig. 6



Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
277026CC	A3F	1	3-pin female, metal	82.5mm x 5.3mmDia.	\$4.49	\$3.99	\$3.58	\$3.26
277034CC	A3FB	2	3-pin female, black	82.0mm x 5.3mmDia.	5.19	3.99	3.65	3.33
281560CC	A3M	3	3-pin male, metal	70.3mm x 5.3mmDia.	3.79	3.17	2.83	2.58
281578CC	A3MB	4	3-pin male, black	70.3mm x 6.1mmDia.	4.59	3.53	3.24	2.95
297422CC	C3F	7	3-pin female, metal, panel mount	36.9mm x 36.5mmDia.	7.85	7.04	6.22	5.63
297431CC	C3M	8	3-pin male, metal, panel mount	30.2mm x 36.3mmDia.	5.65	4.28	3.97	3.97
281640CC	D3F	5	3-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	5.89	4.50	4.13	3.75
281658CC	D3M	6	3-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	4.35	3.33	3.06	2.78
281720CC	J3FS	9	3-pin female, wall plate	69.9mmW x 114.3mmH	23.19	20.88	18.79	16.82
281586CC	A4F	1	4-pin female, metal	82.0mm x 5.5mmDia.	7.25	5.56	5.09	4.64
281594CC	A4M	3	4-pin male, metal	71.2mm x 4.8mmDia.	4.59	4.08	3.68	3.32
297449CC	C4F	7	4-pin female, metal, panel mount	36.9mm x 36.5mmDia.	12.15	9.11	8.35	7.97
297457CC	C4M	8	4-pin male, metal, panel mount	30.2mm x 36.3mmDia.	7.19	5.48	5.02	4.82
281666CC	D4F	5	4-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	8.35	6.38	5.85	5.32
281674CC	D4M	6	4-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	5.19	3.96	3.63	3.31
281607CC	A5F	1	5-pin female, metal	82.0mm x 4.7mmDia.	12.09	9.06	8.31	7.55
281615CC	A5M	3	5-pin male, metal	70.2mm x 5.3mmDia.	9.35	7.18	6.58	5.92
281682CC	D5F	5	5-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	13.39	10.32	9.46	8.55
281691CC	D5M	6	5-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	9.25	7.01	6.43	5.84
281623CC	A6F	1	6-pin female, metal	80.2mm x 4.6mmDia.	10.79	10.25	9.45	8.32
281631CC	A6M	3	6-pin male, metal	70.5mm x 4.5mmDia.	9.55	8.78	8.15	7.51
281703CC	D6F	5	6-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	18.95	14.19	13.02	11.83
281711CC	D6M	6	6-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	12.35	11.80	9.49	8.30



Fig. 7



Fig. 8



Side View



Front View

Fig. 9

Switchcraft®

DIN Connectors

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
296948CC	61HA5F	10	5-pin DIN receptacle, panel mount	20mm x 17mmDia.	\$3.29	\$2.65	\$2.43	\$2.35
296876CC	05BL5M	11	5-pin DIN plug, metal	59.2mm x 13.6mmDia.	4.29	3.94	3.51	3.34
296884CC	05GM5M	12	5-pin DIN plug, black plastic	63.3mm x 13.6mmDia.	4.55	3.72	3.28	3.12



Fig. 10



Fig. 11

Fig. 12

Switchcraft®

RCA Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
281826CC	3503	13	RCA audio jack, metal	43.2mm x 7.6mm ID	\$2.59	\$1.97	\$1.81	\$1.64
281818CC	3502A	14	RCA phono audio plug, nickel	42.4mm x 7.3mm ID	1.85	1.66	1.54	1.40
281800CC	3502	15	RCA mono phono audio plug, metal	33.8mmL x 5.0mm ID	1.75	1.37	1.21	1.10
281797CC	3501FP	16	RCA phono audio jack, metal	16.3mm x 6.0mm Dia.	1.29	1.00	.91	.84



Fig. 13



Fig. 14



Fig. 15



Fig. 16

Switchcraft®

Power Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
281842CC	712A	17	2.1mm DC power jack, panel mount	15.8mm x 7.5mm Dia.	\$2.05	\$1.88	\$1.76	\$1.65
281851CC	722A	17	2.5mm DC power jack, panel mount	15.1mm x 7.5mm Dia.	2.09	1.94	1.75	1.65
297588CC	RAPC722	19	2.0mm x 5.5mm DC pwr. jack, RA	—	.85	.77	.71	.68
297561CC	PC722A	18	2.0mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia.	2.35	2.09	1.93	1.93
297570CC	RAPC712	19	2.5mm x 5.5mm DC pwr. jack, RA	—	.86	.77	.71	.68
297553CC	PC712A	18	2.5mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia.	2.09	1.94	1.90	1.90
297529CC	L712A	20	2.5mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia.	3.75	2.85	2.64	2.64
281877CC	760	21	2.5mm x 5.5mm DC power plug, plastic	9.6mm x 36.3mm x 5.7mm Dia.	2.15	1.94	1.76	1.59
297617CC	S760	21	2.5mm x 5.5mm DC power plug, plastic	25.4mm x 9.5mm Dia.	1.99	1.94	1.80	1.67
297289CC	761K	22	2.5mm x 5.5mm DC power plug, plastic	25.4mm x 9.5mm Dia.	3.99	3.03	2.81	2.81



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21



Fig. 22

D-Sub Connectors and Contacts

AMP - Biggest Name in Quality Connections

Color Code Legend
New Sale Qty. Save Closeout

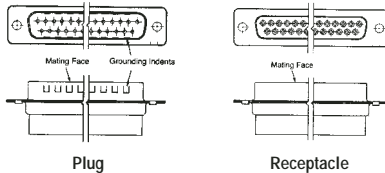
AMP

D-Subminiature Connectors

- Dielectric withstanding voltage: 1000VAC (one minute)
- Nylon, flame retardant, 94V-0 rated, glass filled
- Low-cost, high-performance, precision formed crimp contacts
- Standard mounting method with 0.120" diameter mounting holes
- Insulation resistance: 5000MΩ
- UL/CSA recognized and certified

Crimp-Type Contacts

- Current rating: 1.2A to 3.7A
- Intermateable with any size 20 D-sub dimensionally complying with MIL-C-24308
- Crimp snap-in contacts allows loading of only the number of contacts being used



Zinc-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222640CC	205204-1	9	Plug	\$.95	\$.86	\$.64
222658CC	205206-1	15	Plug	1.39	1.24	.92
222666CC	205208-1	25	Plug	1.05	.92	.82
222674CC	205210-1	37	Plug	1.69	1.49	1.10
222682CC	205212-1	50	Plug	2.09	1.79	1.35
222691CC	205203-1	9	Receptacle	1.10	.99	.77
222703CC	205205-1	15	Receptacle	1.25	1.10	.82
222711CC	205207-1	25	Receptacle	1.05	.95	.71
222720CC	205209-1	37	Receptacle	1.69	1.49	1.10
222738CC	205211-1	50	Receptacle	2.09	1.79	1.69

Tin-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222754CC	205204-3	9	Plug	\$1.29	\$1.15	\$.85
222762CC	205206-2	15	Plug	1.49	1.29	.95
222771CC	207464-1	25	Plug .....	.94	.80	.61
222789CC	205210-2	37	Plug	1.69	1.49	1.10
222797CC	205204-4	9	Plug* .....	.83	.75	.55
222800CC	205206-3	15	Plug* .....	.99	.89	.65
222818CC	207464-2	25	Plug* .....	.88	.78	.58
222826CC	205210-3	37	Plug*	1.69	1.49	1.12
222834CC	205212-3	50	Plug*	1.79	1.59	1.19
222842CC	205203-3	9	Receptacle	.69	.59	.52
222914CC	205205-2	15	Receptacle	.88	.78	.58
222922CC	207463-1	25	Receptacle	.99	.89	.68
222931CC	205209-2	37	Receptacle	1.19	1.05	.78
222949CC	205211-2	50	Receptacle	2.09	1.79	1.35

* With grounding indents

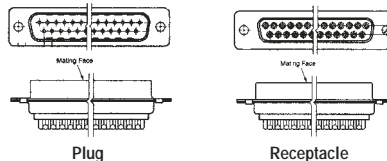
D-Sub Pin Insertion/Extraction Tools

19094CC/223335CC: Plastic body; metal tips
223327CC: Handle with .050" hex wrench & exchangeable tips

Part No.	Description	1	10	100
19094CC	Red/white plastic body	\$2.79	\$2.49	\$2.15
223335CC	AMP# 91067-2	4.45	3.95	3.75
223327CC	AMP# 91285-1	19.99	18.99	17.99

Solder-Cup Contacts

- Current rating: 1.2A to 3.0A
- Intermateable with other D-sub connectors
- One-piece 94V-0 rated plastic insert
- Preloaded duplex-plated solder-cup contacts
- Shields offer full EMI shielding and ESD insulation
- Anti-solderwicking contact design



Zinc-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222957CC	747904-4	9	Plug	\$1.89	\$1.59	\$1.32
222965CC	747908-4	15	Plug	2.65	2.19	1.75
222973CC	747912-4	25	Plug	3.69	3.10	2.49
222981CC	747916-4	37	Plug	5.45	4.56	3.79
223036CC	747905-4	9	Receptacle	2.65	2.23	1.76
223044CC	747913-4	25	Receptacle	4.75	3.99	3.19

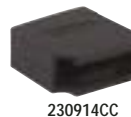
Tin-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222990CC	747904-2	9	Plug	\$1.69	\$1.55	\$1.15
223001CC	747908-2	15	Plug	2.79	2.49	1.85
223010CC	747912-2	25	Plug	3.29	2.95	2.19
223028CC	747916-2	37	Plug	5.29	4.29	3.49
223052CC	747905-2	9	Receptacle	2.35	2.09	1.55
223061CC	747909-2	15	Receptacle	3.45	2.99	2.19
223079CC	747913-2	25	Receptacle	4.09	3.69	2.72
223087CC	747917-2	37	Receptacle	6.65	5.69	4.19

AMP Plastic Hoods for D-Sub Connectors

- Cable clamp type: clam shell
- Cable exit angle: straight
- Standard clam shell length
- Body material, cable support gate, and cable clamp: thermoplastic
- Screw material: steel
- Screw plating: zinc



Part No.	Product No.	Positions	1	10	100
230893CC	205729-1	9	\$2.25	\$1.85	\$1.46
230906CC	205730-1	15	2.35	2.10	1.85
230914CC	205718-1	25	2.05	1.69	1.32
230922CC	205731-1	37	2.99	2.63	2.29
230931CC	205732-1	50	3.19	2.65	2.19

AMP D-Sub Contacts

- Pin material: brass; socket material: phosphor bronze
- Contact plating
- *A: Select - gold flash over nickel on entire contact, with additional gold (.000030) on mating end;
- *B: Duplex - gold (.000030) on mating end, tin-lead on termination end, with entire contact nickel underplated;
- *C: gold flash over nickel on entire contact;
- *D: gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated
- For use with AMP D-sub connectors (see left)
- Prepackaged: order in increments of 10, 100 or 1000



Male Crimp Contacts

Part No.	Product No.	Desc.*	AWG	10	100	1000
223095CC	1-66507-0	1C	28-24	\$.24	\$.17	\$.12
223124CC	66682-4	1A	28-24 .....	.22	.16	.14
223108CC	66507-9	1A	28-24 .....	.18	.12	.09
223132CC	745254-7	1C	26-22 .....	.25	.18	.128
223141CC	745254-6	1A	26-22 .....	.25	.18	.13
223159CC	1-745254-6	1B	26-22 .....	.25	.18	.13
223167CC	1-66506-0	1C	24-20 .....	.16	.15	.12
223175CC	205202-7	3C	24-20 .....	.24	.17	.14
223183CC	5-66506-9	1D	24-20 .....	.21	.15	.13
223191CC	66506-9	1A	24-20 .....	.16	.15	.10
223204CC	5-66506-7	1B	24-20 .....	.24	.17	.12
223212CC	745229-4	3A	22-18 .....	.26	.24	.19

Female Crimp Contacts

Part No.	Product No.	Desc.*	AWG	10	100	1000
223221CC	1-66505-0	2C	28-24	\$.18	\$.12	\$.09
223239CC	66683-4	2A	28-24 .....	.19	.17	.15
223247CC	745253-6	2A	26-22 .....	.27	.20	.14
223255CC	1-66504-0	2C	24-20 .....	.17	.15	.11
223263CC	205201-7	4C	24-20 .....	.26	.214	.16
223271CC	5-66504-7	2D	24-20 .....	.16	.12	.10
223280CC	205201-5	4A	24-20 .....	.18	.147	.11
223298CC	66504-9	2A	24-20 .....	.17	.15	.13
223301CC	6-66504-0	2B	24-20 .....	.26	.214	.16

Male Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
234982CC	66570-3	5A	28-24	\$.22	\$.12	\$.11

Female Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
223319CC	66569-3	6A	18 (max.)	\$.225	\$.18	\$.162

Order Anytime 24x7x365

Phone 1-800-831-4242 Online www.Jameco.com Fax 1-800-237-6948

D-Sub Connector Hoods



- Use with D-sub solder cup and housing style connectors (hardware included)

D Series: plastic hood with strain relief (gray)

MD Series: metal coated plastic hood w/ strain relief

MH Series: die-cast metal hood with strain relief

Part No.	Mfr. Cross Ref. No.	Connector	1	10	100	1000
15721CC	DB9H	9-pin 1	\$.49	\$.45	\$.39	\$.35
25620CC	MD9H	9-pin 1	.59	.49	.39	.35
147740CC	MHDB9	9-pin 1	1.45	1.29	1.15	.99
15018CC	DA15H	15-pin 1	.49	.45	.40	.35
25566CC	MDA15H	15-pin 1	.56	.44	.36	.31
15085CC	DB25H	25-pin 1	.45	.39	.35	.32
25603CC	MD25H	25-pin 1	.59	.49	.42	.35
15106CC	MHDB25	25-pin 1	1.39	1.19	1.09	.89
15456CC	DC37H	37-pin 1	.59	.55	.45	.39
25611CC	MDC37H	37-pin 1	.75	.69	.59	.53
15659CC	DD50H	50-pin 1	.99	.85	.75	.65

25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects.



Part No.	Description	1	10	100	500
34091CC	25-pin, plastic dual ..	\$.95	\$.85	\$.75	\$.59

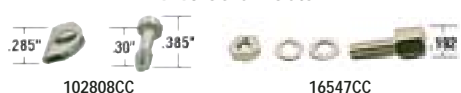
4-40 Screw Hardware for D-Subminiature Connectors

4-40 x .187" Jack Screws and Standoffs



Part No.	Description	1	10	100	1000
196293CC	.252"L jack screw	*	\$.21	\$.12	\$.08
169931CC	.275"L jack screw	*	.15	.13	.11
172603CC	.315"L jack screw	*	.14	.11	.08
102816CC	.435"L jack screw .....	.49	.46	.41	.37
108986CC	.515"L jack screw .....	.55	.50	.45	.40
125014CC	4-40 x 1.65"L plastic beige thumbscrew .....	.39	.35	.32	.25
175636CC	.187"L standoff	*	.21	.15	.10
102795CC	.236"L (6mm) standoff ..	*	.21	.15	.10

4-40 Screw Sets



102808CC: 4-40 screw (.30"L) and retainer set
16547CC: 4-40 x .187" jack screw (.31"L thread), washer, lock washer, and nut set

- Prepackaged: order in increments of 10, 100 or 1000

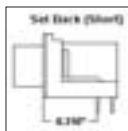
Part No.	Description	10	100	1000
102808CC	Screw/retainer set	\$.39	\$.35	\$.30
16547CC	Screw/nut set .....	.31	.25	.17

D-Subminiature Connectors

- Metal shells are tin-plated for improved EMI/RFI shielding
- Insulation resistance: minimum 1000MΩ at 500VDC
- Dielectric withstanding voltage: 1000V (one minute)
- Current rating: 1A to 5A
- High temperature thermoplastic
- Insulation material: PBT

Right Angle PC Mount

.318" Set Back



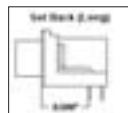
- Short style
- Lead length: .138"
- Lead spacing: .115"
- Shell: metal
- Current rating: 1A



Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10	100	500
104942CC	DB9P318	9	M	\$.55	\$.50	\$.45	\$.38
104951CC	DB9S318	9	F	..60	.55	.49	.45
71124CC	DA15P318	15	M	..69	.59	.55	.49
77956CC	DA15S318	15	F	..79	.69	.65	.45
168743CC	HDD15S318*	15	M	..49	.42	.34	.31
71466CC	HDD15S318*	15	F	..59	.53	.48	.39
15149CC	DB25P318	25	M	..79	.65	.55	.45
15181CC	DB25S318	25	F	..89	.79	.72	.65
265439CC	DSUB-25F	25	F	..85	.73	.62	.48
71706CC	DC37P318	37	M	..99	.89	.80	.66
78182CC	DC37S318	37	F	1.15	.95	.69	.49

* High Density

.590" Set Back



- Lead length: .178"
- Lead spacing: .104"
- Current rating: 1A
- Shell: metal
- Long style



Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10	100
104969CC	DB9P590	9	M	\$.99	\$.83	\$.72
104977CC	DB9S590	9	F	..89	.79	.75
104993CC	DA15S590	15	F	..99	.85	.59
105005CC	DB25P590	25	M	..99	.89	.79
105013CC	DB25S590	25	F	1.25	1.12	.99

Other Manufacturers — Limited Great Deals

189624CC	DB25P590†	25	M	\$.49	\$.44	\$.39
----------	-----------	----	---	-------	-------	-------

† Without board tabs

IDC Ribbon Cable Connectors

- Current rating: 1 amp
- Insulation material: glass-filled polyester
- Temp range: -55°C to +120°C
- Contact material: phosphor bronze
- Terminates with standard D-type connectors
- Shell: MD: metal; CD: plastic (see mfr. cross ref. no.)

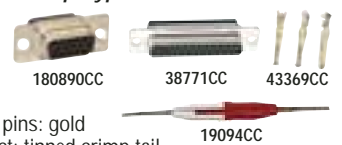


Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10	100
109225CC	MD9P†	9	M	\$1.35	\$1.25	\$1.09
12503CC	CDB9P	9	M	2.49	1.79	1.59
109217CC	MD9S†	9	F	1.49	1.19	1.05
12520CC	CDB9S	9	F	2.59	2.35	2.09
117381CC	MDA15P	15	M	1.55	1.25	.69
12298CC	CDA15P	15	M	1.55	1.25	.75
116011CC	MDA15S	15	F	1.55	1.25	.85
12319CC	CDA15S	15	F	1.69	1.35	.79
115983CC	MDB25P	25	M	1.85	1.69	1.45
12335CC	CDB25P	25	M	1.89	1.69	1.29
115975CC	MDB25S	25	F	1.85	1.65	1.39
12431CC	CDB25S	25	F	1.95	1.79	1.39
115991CC	MDC37P	37	M	2.39	2.15	1.55
12466CC	CDC37P	37	M	3.09	2.79	2.49
116003CC	MDC37S	37	F	2.95	2.69	2.42
12482CC	CDC37S	37	F	3.49	2.99	2.25

† Require flat cable w/ .0625" centers

Crimp-Type Connectors & Pins

- Connectors: metal shell; removable male/female crimp pins
- Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: exchangeable tips
- Use 99442CC, pg 211 to crimp 43377CC, 43369CC



* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
73189CC	DB9 M housing	\$.49	\$.39	\$.31	\$.19
73197CC	DB9 F housing .....	.49	.39	.31	.19
73200CC	DA15 M housing .....	.59	.53	.48	.43
73218CC	DA15 F housing .....	.62	.59	.47	.35
180881CC	HDD15 M housing*	1.09	.98	.78	.58
180890CC	HDD15 F housing*	.89	.79	.72	.65
38789CC	DB25 M housing .....	.56	.44	.36	.21
38771CC	DB25 F housing .....	.55	.44	.31	.21
43377CC	M crimp pin	*	.10	.09	.08
43369CC	F crimp pin	*	.08	.07	.06
185421CC	M crimp pin (180881CC) ..	*	.055	.045	.04
185412CC	F crimp pin (180890CC) ..	*	.055	.05	.04
19094CC	Insert/extract. tool for above pins (HT101)	2.79	2.49	2.15	2.15

* High Density

Solder-Cup Connectors



- Compatible with 24 AWG communications and 22 AWG solid cable, pg 78
- Shell: metal

Part No.	Contacts	Gender	1	10	100	1000
15747CC	9	M	\$.56	\$.44	\$.36	\$.24
15771CC	9	F	..59	.49	.44	.31
15077CC	15HD*	M	..69	.59	.49	.31
164822CC	15HD*	F	..79	.69	.59	.39
15034CC	15	M	..55	.49	.42	.29
15051CC	15	F	..59	.49	.39	.24
15114CC	25	M	..99	.89	.79	.71
15157CC	25	F	..89	.80	.69	.61
203799CC	26HD*	M	..65	.58	.52	.52
203781CC	26HD*	F	..75	.68	.61	.61
15472CC	37	M	..99	.85	.79	.49
15499CC	37	F	1.19	1.05	.85	.49
15675CC	50	M	1.65	1.49	1.35	.99
15691CC	50	F	1.79	1.39	1.32	1.19

* High Density

Straight PC Mount Connectors

- Non-removable contacts
- 125 Vrms
- Current rating: 5 amps
- Operating temperature: -65°F to +250°F
- Shell: metal



Part No.	Mfr. Cross Ref. No.	Cont.	Gender	1	10	100
111691CC	DB9PPCB	9	M	\$.55	\$.45	\$.32
15780CC	DB9SPCB	9	F	..55	.45	.32
176760CC	DA15PPCB	15	M	..49	.42	.31
176751CC	DA15SPCB	15	F	..49	.42	.31
15122CC	DB25PPCB	25	M	..65	.59	.52
15165CC	DB25SPCB	25	F	..74	.67	.39
180021CC	DC37SPCB	37	F	..85	.72	.54

.062" (1.57mm) Power Connectors

- Passive friction lock
- Polarized housing assures proper mating
- Voltage: 250V • Current: 5.0A
- Dielectric withstanding voltage: 1500VAC_{RMS}
- Contact retention to housing: 20 lbs. minimum
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C

Plugs



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224477CC	03-06-2011*	1	\$.29	\$.16	\$.13
224485CC	03-06-2023*	2	.30	.18	.15
224493CC	03-06-2032*	3	.31	.19	.16
224506CC	03-06-2042*	4	.39	.27	.24
224514CC	03-06-2044**	4	.39	.27	.24
230244CC	03-06-2055*	5	.47	.26	.24
224522CC	03-06-2061**	6	.45	.28	.25
224531CC	03-06-2092**	9	.49	.27	.24
224549CC	03-06-2122**	12	.52	.30	.25

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229948CC	03-06-2024*	2	\$.30	\$.17	\$.14
229964CC	03-06-2033*	3	.35	.18	.15
229981CC	03-06-2041*	4	.47	.27	.24
230009CC	03-06-2043**	4	.47	.26	.24
230025CC	03-06-2054*	5	.47	.26	.24
230041CC	03-06-2062**	6	.47	.26	.24
230068CC	03-06-2091**	9	.47	.26	.24
230084CC	03-06-2121**	12	.55	.29	.26

*In-line **Grid

Receptacles



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224397CC	03-06-1011*	1	\$.29	\$.16	\$.13
224400CC	03-06-1023*	2	.30	.18	.15
224418CC	03-06-1032*	3	.31	.19	.16
224426CC	03-06-1042*	4	.39	.27	.24
224434CC	03-06-1044**	4	.39	.27	.24
230252CC	03-06-1056*	5	.55	.35	.31
224442CC	03-06-1062**	6	.45	.28	.25
224451CC	03-06-1092**	9	.49	.27	.24
224469CC	03-06-1122**	12	.52	.30	.25

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229956CC	03-06-1022*	2	\$.31	\$.16	\$.14
229972CC	03-06-1038*	3	.32	.17	.15
229999CC	03-06-1041*	4	.49	.26	.23
230017CC	03-06-1043**	4	.49	.26	.23
230033CC	03-06-1055*	5	.59	.49	.36
230050CC	03-06-1061**	6	.47	.26	.23
230076CC	03-06-1091**	9	.47	.26	.23
230092CC	03-06-1121**	12	.49	.33	.30

*In-line **Grid

.093" (2.36mm) Power Connectors

- Passive friction lock
- Voltage: 250V
- Current: 12A per circuit
- Dielectric withstanding voltage: 1500VAC_{RMS}
- Contact retention to housing: 20 lbs. minimum
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C

Plugs



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224063CC	03-09-2011*	1	\$.29	\$.18	\$.12
224071CC	03-09-2022*	2	.30	.25	.18
224080CC	03-09-2032*	3	.41	.32	.21
224098CC	03-09-2042*	4	.45	.22	.20
229825CC	03-09-2049**	4	.45	.34	.26
230261CC	03-09-2057*	5	.55	.29	.26
224101CC	03-09-2062**	6	.49	.39	.29
224119CC	03-09-2092**	9	.55	.35	.30
224127CC	03-09-2121**	12	.69	.59	.39

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230105CC	03-09-2021*	2	\$.35	\$.18	\$.16
230121CC	03-09-2031*	3	.42	.22	.20
230148CC	03-09-2041*	4	.42	.22	.20
230164CC	03-09-2040**	4	.64	.59	.35
230181CC	03-09-2061**	6	.35	.33	.25
230201CC	03-09-2091**	9	.65	.35	.31
230228CC	03-09-2122**	12	.71	.38	.35

*In-line **Grid

Receptacles



Without Mounting Ears

Part No.	Product No.	Circuits	1	10	100
224135CC	03-09-1011*	1	\$.29	\$.09	\$.08
224143CC	03-09-1022*	2	.30	.25	.18
224151CC	03-09-1032*	3	.44	.25	.16
224160CC	03-09-1042*	4	.46	.25	.22
229817CC	03-09-1049**	4	.46	.33	.25
230279CC	03-09-1057*	5	.59	.49	.32
224178CC	03-09-1064**	6	.49	.23	.20
224186CC	03-09-1094**	9	.69	.59	.39
224194CC	03-09-1126**	12	.75	.49	.39

*In-line **Grid

With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230113CC	03-09-1027*	2	\$.35	\$.17	\$.15
230130CC	03-09-1081*	3	.48	.24	.22
230156CC	03-09-1041*	4	.40	.23	.17
230172CC	03-09-1040**	4	.48	.25	.23
230199CC	03-09-1061**	6	.49	.26	.25
230210CC	03-09-1091**	9	.62	.33	.30
230236CC	03-09-1125**	12	.62	.33	.30

*In-line **Grid



.062" (1.57mm) Contacts

- Durability: tin - 25 mating/un-mating cycles max.
- Contact: brass or phosphor bronze
- Tin plating
- Temperature range: -40°C to +105°C
- Prepackaged: order in increments of 10, 100 or 1000

Crimp-Type Contacts



Part No.	Product No.	Gender	AWG	10	100	1000
224565CC	02-06-2103	M	18-24 ...	\$.18	\$.057	\$.038
224581CC	02-06-2132	M	24-30 .....	.18	.057	.038
224557CC	02-06-1103	F	18-24 .....	.18	.057	.038
224573CC	02-06-1132	F	24-30 .....	.18	.057	.038

Solder-Tail Contacts



Part No.	Product No.	Gender	10	100	1000
227379CC	02-06-8103	Male	\$.18	\$.11	\$.066
227387CC	02-06-7103	Female	.18	.11	.066



.093" (2.36mm) Contacts

- Durability: tin - 25 mating/un-mating cycles max.
- Contact: brass or phosphor bronze
- Tin plating
- Temperature range: -40°C to +105°C
- Prepackaged: order in increments of 10, 100 or 1000

Crimp-Type Contacts



Part No.	Product No.	Gender	AWG	10	100	1000
224207CC	02-09-2118	M	18-22	\$.19	\$.06	\$.04
224233CC	02-09-2103	M	14-20 .....	.18	.059	.04
224215CC	02-09-1119	F	18-22 .....	.20	.07	.04
224231CC	02-09-1104	F	14-20 .....	.18	.059	.04

Solder-Tail Contacts



Part No.	Product No.	Gender	10	100	1000
224240CC	02-09-2133	Male	\$.149	\$.129	\$.091
224258CC	02-09-1134	Female	.20	.14	.09



Hand Crimp Tools

This tool is designed to crimp terminals, strip and cut wires, and cut bolts. For Molex crimp pin terminals with .062", .093" diameters and KK® series on opposite page.

308030CC: Cuts & strips 14-24 AWG wires
227491CC: Cuts & strips 18-30 AWG wires



Part No.	Product No.	Length	Color	1	5
308030CC	W-HT-1919	8.3"L	Red	\$.14.99	\$13.99
227491CC	W-HT-1921	8.3"L	Yellow	14.99	13.99

molex .062" Power Connector Kit

This assortment kit contains mating sets of housings and pins.

- Voltage: 250VAC • Current: 5A
- Temperature range: -40°C to +105°C

Includes: 3 ea. 2-pin plugs and 2-pin receptacles, 8 ea. male contacts and 8 ea. female contacts.



Part No.	Product No.	Description	1	10	50
142113CC	1625-2	Kit	\$5.69	\$5.15	\$4.59

molex .093" Power Connector Kits

These assortment kits contain mating sets of housings and pins.

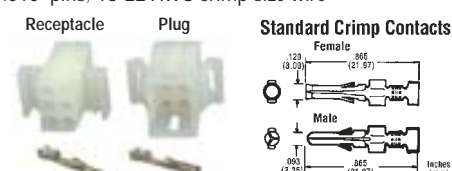
- Voltage: 250VAC
- Temperature range: -40°C to +105°C

142181CC: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts • Current: 12A

142201CC: • 2 ea. 4-pin plugs & receptacles, 10 ea. female & male contacts • Current: 9A

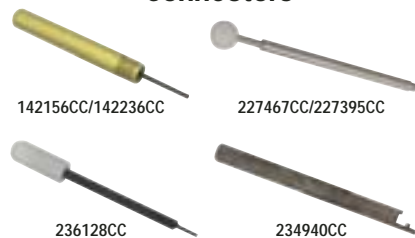
142228CC: • 2 ea. 6-pin plugs & receptacles, 14 ea. female & male contacts • Current: 9A

Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire



Part No.	Product No.	Description	1	10	50
142181CC	1545	2-pin kit	\$4.95	\$4.49	\$3.95
142201CC	1490	4-pin kit ...	5.69	5.15	4.65
142228CC	1261	6-pin kit ...	5.25	4.75	3.95

Extraction Tools for Molex Connectors



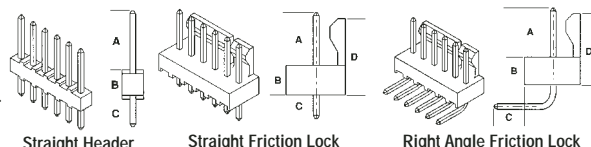
142156CC/227467CC: For .062" power connectors
142236CC/227395CC: For .093" power connectors
236128CC/234940CC: For .100" KK® series housing

Part No.	Product No.	AWG	1	10
142156CC	W-HT-2285	18-30	\$14.49	\$13.49
227467CC	W-HT-2023	18-30	11.99	10.99
142236CC	W-HT-2038	14-30	14.49	13.49
227395CC	W-HT-2054	14-30	11.99	10.99
236128CC	W-HT-1884	22-30	9.99	8.99
234940CC	11-03-0022	22-30	14.99	12.99

Find more products on our website.
www.Jameco.com

molex KK® Series .100" (2.54mm) Male Headers

- Voltage: 250V • Current: 4.0A
- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500V
- Insulation resistance: 50,000MΩ min.
- Housing: nylon, UL94V-0
- Contact: brass, 0 - 6.4mm (0.25") square
- Durability: tin - 25 cycles max.; gold - 100 cycles max.



Straight Headers (Tin)

- Dimensions: (A) .295"; (B) .130"; (C) .135"

*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
232178CC	22-03-2021	2	* .10	* .09	
232186CC	22-03-2031	3	* .16	* .14	
232194CC	22-03-2041	4	* .21	* .19	
232207CC	22-03-2051	5 .....	.29	.26	.24
232215CC	22-03-2061	6 .....	.34	.31	.27
232223CC	22-03-2081	8 .....	.40	.37	.33
232231CC	22-03-2101	10 .....	.46	.42	.37
232240CC	22-03-2121	12 .....	.56	.51	.45

Straight Friction Lock Headers (Tin)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
232266CC	22-23-2021	2 .....	.29	.23	.15
232274CC	22-23-2031	3 .....	.35	.30	.19
232282CC	22-23-2041	4 .....	.42	.36	.23
232291CC	22-23-2051	5 .....	.49	.42	.27
232303CC	22-23-2061	6 .....	.55	.48	.31
232311CC	22-23-2071	7 .....	.63	.55	.36
232320CC	22-23-2081	8 .....	.72	.63	.41
232338CC	22-23-2091	9 .....	.76	.66	.36
232346CC	22-23-2101	10 .....	.80	.70	.46
232354CC	22-23-2121	12 .....	.95	.83	.55

Jameco's Low-Price Guarantee

Happen to find a like product at a lower print advertised price? We'll beat that price by 10% right down to our cost!

Just call us. It's that simple!

molex KK® Series .100" (2.54mm) Female Housing and Crimp Contacts

- Voltage: 250V
- Current: phosphor bronze - 4.0A max., brass - 2.5A max.
- Contact resistance: 20mΩ max.
- Dielectric withstanding volt.: 1500VAC
- Insulation resistance: 50,000MΩ

Housing Material:

- Contact insertion force: 1.5 lbs. max.
- Contact retention to housing: 8 lbs. min.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C

Housing with Locking Ramp & Polarizing Ribs

Part No.	Product No.	Positions	1	10	100
234798CC	22-01-3027	2 .....	.29	.17	.10
234801CC	22-01-3037	3 .....	.29	.21	.13
234819CC	22-01-3047	4 .....	.31	.27	.17
234827CC	22-01-3057	5 .....	.36	.31	.20
234835CC	22-01-3067	6 .....	.42	.36	.23
234843CC	22-01-3077	7 .....	.47	.41	.26
234851CC	22-01-3087	8 .....	.54	.47	.30
234860CC	22-01-3097	9 .....	.58	.50	.32
234878CC	22-01-3107	10 .....	.65	.55	.35
234886CC	22-01-3127	12 .....	.76	.66	.42

Right Angle Friction Lock Headers (Tin)

- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233437CC	22-05-3021	2 .....	.42	.36	.22
233445CC	22-05-3031	3 .....	.56	.49	.30
233453CC	22-05-3041	4 .....	.71	.61	.39
233461CC	22-05-3051	5 .....	.77	.67	.43
233470CC	22-05-3061	6 .....	.85	.74	.48
233488CC	22-05-3071	7 .....	.99	.79	.56
233496CC	22-05-3081	8	1.03	.83	.58
233509CC	22-05-3101	10	1.08	.94	.61
233517CC	22-05-3121	12	1.19	.99	.69

Straight Friction Lock Headers (Gold)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233584CC	22-11-2022	2 .....	.54	.46	.29
233592CC	22-11-2032	3 .....	.85	.74	.47
233605CC	22-11-2042	4 .....	.87	.76	.49
233613CC	22-11-2052	5	1.22	1.06	.69
233621CC	22-11-2062	6	1.34	1.17	.76
233630CC	22-11-2072	7	1.55	1.36	.89
233648CC	22-11-2082	8	1.65	1.42	.93
233656CC	22-11-2102	10	2.05	1.77	1.16
233664CC	22-11-2122	12	2.39	2.12	1.39

Right Angle Friction Lock Headers (Gold)

- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233672CC	22-12-2024	2 .....	.89	.77	.48
233681CC	22-12-2034	3	1.15	.99	.63
233699CC	22-12-2044	4	1.36	1.19	.76
233701CC	22-12-2054	5	1.49	1.31	.84
233710CC	22-12-2064	6	1.65	1.43	.92
233728CC	22-12-2084	8	1.85	1.51	1.05

Housing with Locking Ramp

Part No.	Product No.	Positions	1	10	100
234704CC	22-01-2027	2 .....	.29	.15	.09
234712CC	22-01-2037	3 .....	.29	.20	.12
234721CC	22-01-2047	4 .....	.29	.24	.15
234739CC	22-01-2057	5 .....	.33	.28	.17
234747CC	22-01-2067	6 .....	.36	.32	.20
234755CC	22-01-2087	8 .....	.47	.41	.26
234763CC	22-01-2097	9 .....	.51	.44	.28
234771CC	22-01-2107	10 .....	.57	.49	.31
234780CC	22-01-2127	12 .....	.67	.58	.37

Crimp Contacts

- Accommodates 22 to 30 AWG
- Material: brass or phosphor bronze
- Insulation range: 0.062" (1.58mm) diameter max.
- Prepackaged: order in increments of 10, 100 or 1000

234923CC: Brass with tin plating

234931CC: Brass with 15µ select gold plating

Part No.	Product No.	10	100	1000
234923CC	08-50-0114	\$0.65	\$0.48	\$0.29
234931CC	08-55-0102	.22	.17	.11



AMP

.156" (3.96mm) Female Housing

- Voltage and current rating: 250VAC @ 6.5A maximum
- Material: nylon, unreinforced 94V-0
- Dielectric withstanding voltage: 2kVAC
- Insulation resistance: 1,000MΩ minimum • Hole diameter: .054" (1.37mm)

New Lower Prices



With Locking Ramp

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .0365"

*Prepackaged: order in increments of 10 or 100

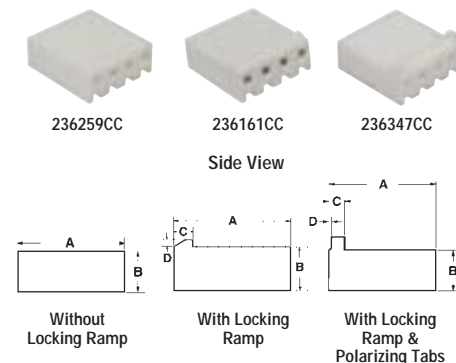
Part No.	Product No.	Positions	1	10	100
236144CC	640250-2	2	* .152	* .134	
236152CC	640250-3	3	* .086	* .053	
236161CC	640250-4	4	* .162	* .15	
236179CC	640250-5	5 .....	.20	.138	.105
236187CC	640250-6	6 .....	.21	.15	.112
236195CC	640250-7	7 .....	.24	.15	.118
236208CC	640250-8	8 .....	.22	.144	.142
236216CC	640250-9	8 .....	.45	.419	.337
236224CC	1-640250-0	10 .....	.51	.466	.349

With Locking Ramp and Polarizing Tabs

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .019" ±.003"

*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
236321CC	770849-2	2	* .114	* .105	
236339CC	770849-3	3 .....	.22	.14	.08
236347CC	770849-4	4 .....	.20	.173	.15
236355CC	770849-5	5	* .171	* .154	
236363CC	770849-6	6 .....	.30	.28	.182
236371CC	770849-7	7 .....	.36	.326	.213
236380CC	770849-8	8 .....	.39	.365	.30
236398CC	770849-9	9 .....	.46	.39	.19
236401CC	1-770849-0	10 .....	.31	.307	.291



Without Locking Ramp

- Dimensions: (A) .660"; (B) .250"

*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
236232CC	640251-2	2	* .096	* .095	
236241CC	640251-3	3 .....	.19	.14	.08
236259CC	640251-4	4 .....	.29	.186	.107
236267CC	640251-5	5	* .114	* .106	
236275CC	640251-6	6 .....	.25	.23	.19
236283CC	640251-7	7 .....	.42	.326	.213
236291CC	640251-8	8 .....	.45	.373	.243
236304CC	640251-9	9 .....	.46	.419	.337
236312CC	1-640251-0	10 .....	.27	.25	.243

AMP

.156" (3.96mm) Male Headers

- Voltage and current rating: 600VAC @ 7.0A
- Contact material/plating: copper alloy/tin
- UL94V-0 flammability rating
- .045" square posts
- Insulator material: polyester
- Solder tail material/plating: copper alloy/tin



Straight Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

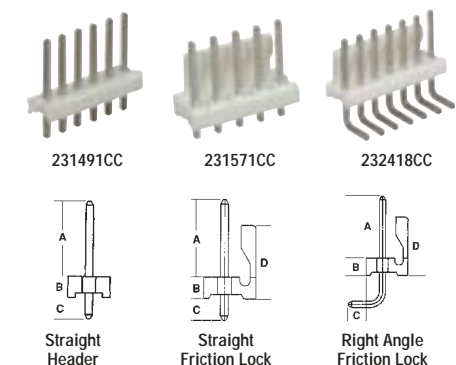
*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
231546CC	640445-2	2	* .07	* .06	
231554CC	640445-3	3	* .075	* .065	
231562CC	640445-4	4	* .10	* .08	
231571CC	640445-5	5	* .14	* .10	
231589CC	640445-6	6	* .17	* .13	
231597CC	640445-7	7	* .18	* .15	
231600CC	640445-8	8	* .23	* .17	
231626CC	1-640445-0	10 .....	.31	.24	.19

Right Angle Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

Part No.	Product No.	Positions	1	10	100
232362CC	640389-2	2	* .29	* .26	* .23
232371CC	640389-3	3 .....	.44	.39	.34
232389CC	640389-4	4 .....	.59	.52	.46
232397CC	640389-5	5 .....	.74	.65	.57
232400CC	640389-6	6 .....	.80	.71	.62
232418CC	640389-7	7 .....	.93	.83	.73
232426CC	640389-8	8	1.06	.94	.83
232434CC	640389-9	9	1.19	1.06	.92
232442CC	1-640389-0	10	1.33	1.18	.98



Straight Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"

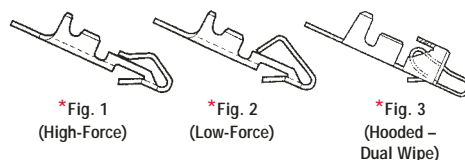
Part No.	Product No.	Positions	1	10	100
231458CC	640383-2	2	* .23	* .20	* .17
231466CC	640383-3	3 .....	.26	.23	.20
231474CC	640383-4	4 .....	.29	.26	.22
231482CC	640383-5	5 .....	.37	.33	.27
231491CC	640383-6	6 .....	.40	.36	.32
231503CC	640383-7	7 .....	.47	.42	.34
231511CC	640383-8	8 .....	.55	.46	.39
231520CC	640383-9	9 .....	.60	.53	.45
231538CC	1-640383-0	10 .....	.65	.58	.49

AMP: Quality Components for Less

AMP D-subminiature connectors, crimp and solder contacts, headers and D-sub hoods—the standard for quality around the globe. Get AMP top-quality brand-name products, along with all your other electronic components and tools, with one call to Jameco. Take a look at our selection on this page and page 90.

AMP .156" Crimp Contacts

- Voltage rating: 250VAC
- Current rating: 10A maximum
- Low level resistance: 30mΩ max.
- Dielectric withstanding voltage: 2000VAC/1 min.
- Insulation resistance: 1000MΩ minimum
- Compatible with .045" square or round posts
- Material and finish:
 - *A: brass, 0.012 bright tin plated
 - *B: brass, 0.012 pre-tin plated
 - *C: brass, 0.000030 gold over nickel plated
 - *D: phosphor bronze, 0.012 bright tin plated
 - *E: phosphor bronze, 0.000030 gold over nickel plated
- For use with .156" AMP housings (left)
- Prepackaged: order in increments of 10, 100 or 500



Part No.	Product No.	Desc.*	AWG	10	100	500
248866CC	640706-1	1A	18-24	*.171	*.155	*.145
248874CC	640706-2	1B	18-24	.152	.14	.13
248882CC	640707-1	2A	18-24	.20	.175	.119
248891CC	770258-1	2C	18-24	.35	.32	.28
248903CC	770522-1	3D	18-24	.19	.138	.123
248911CC	770258-2	3E	18-24	.30	.27	.23



See page 90 for AMP D-Sub Connectors with Crimp and Solder Contacts.



Corporate Customers

Even lower OEM pricing for larger orders!

Call
1-800-831-4242
for details today.



.156" (3.9mm) Center Straight-Friction Lock Headers

- Ideal for AC and DC power distribution
- Voltage rating: 250VAC/VDC max.
- Current rating: 7 amps AC/DC
- Contact resistance: 20mΩ
- Temperature range: -25°C to +85°C
- Header material:
pin - brass/tin-plated
- Base: nylon 66, UL94V-2



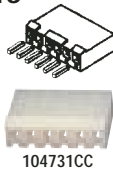
104811CC

* Prepackaged: order in increments of 10, 100, 1000

Part No.	Cross Ref. No.	Pins	1	10	100	1000
104791CC	LMH4	4	* \$.11	\$.09	\$.07	
104803CC	LMH5	5	* .13	.11	.09	
104811CC	LMH6	6	* .15	.12	.10	
104846CC	LMH10	10 .....	.22	.20	.16	.12
235491CC	8673-12-5	12 .....	.35	.32	.25	.23

.156" (3.9mm) Center Housing Connectors

- Common to many power supplies carried by Jameco. Some power supplies (pgs 138-141) may require multiple connectors
- Housing material:
nylon 66, UL94V-2
- Use with crimp pins, 78318CC, below



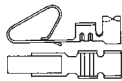
104731CC

* Prepackaged: order in increments of 10, 100, 1000

Part No.	Cross Ref. No.	Pins	1	10	100	1000
176743CC	LCH2	2	* \$.07	\$.045	\$.04	
104432CC	LCH3	3	* .19	.12	.11	
104715CC	LCH4	4	* .22	.15	.12	
104723CC	LCH5	5 .....	.24	.22	.16	.12
104731CC	LCH6	6 .....	.33	.30	.24	.15
104766CC	LCH10	10 .....	.39	.32	.28	.23

.156" (3.9mm) Center Crimp Pin

- Pin wire gauge:
18-24 AWG
- Material: brass/tin plated
- Use with .156 housings (above)



Prepackaged: order in increments of 10, 100, 1000

Part No.	Mfr. Cross Ref. No.	10	100	1000
78318CC	JS-5001-T	\$.11	\$.08	\$.07

.156" Female Crimp Pins

- Pin wire gauge:
18-22 AWG
- Material: tin-plated brass
- Use 99442CC crimping tool, pg 211



Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr. Cross Ref. No.	10	100	1000
154093CC	LRPIN	\$.07	\$.05	\$.035



Crimping Tools
for above
Crimp Pins –
See page 211.



.118"-Pitch ATX Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC
- Current rating: 7A AC/DC
- Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min.
- Withstanding voltage: 1500V/min.

147379CC: ATX male 20-pin edge mount connector

• Material: nylon 66, UL-94V0

• Material of post: tin-plated brass

• Diameter of post: .045"

147387CC: Housing connector • Material: nylon 66, UL-94V0

147395CC: ATX power terminal pins • Material: tin-plated brass



147379CC



147395CC



147387CC

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
147379CC	20-pin male connector	1.7"	0.4"	0.6"	—	—	\$.59	\$.53	\$.48	\$.43
147387CC	20-pin housing connector	1.7"	0.4"	0.8"	—	147395CC	.59	.53	.48	.43
147395CC	Power terminal pin, female	.59"	—	—	.068"	147387CC	*	.12	.11	.10

.098"-Pitch AT Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC
- Current rating: 7A AC/DC
- Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ minimum
- Withstanding voltage: 1500V/min.

78300CC: AMP60G male 6-pin PCB mount connector

• Material of post: tin-plated brass

• Diameter of post: .09"

78326CC: AMP50G female 6-pin housing connector • Material: nylon

78318CC: AMP501T terminal pin

• Material: tin-plated brass



78300CC



78318CC

78326CC

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
78300CC	6-pin male connector	.93"	.37"	.57"	—	—	\$.45	\$.39	\$.35	\$.31
78326CC	6-pin housing connector	.94"	.25"	.74"	—	78300CC	.35	.31	.28	.25
78318CC	Power terminal pin, female	.69"	—	—	.09"	78326CC	*	.11	.08	.07

.156" (3.9mm) Center Housing Connectors and Crimp Contact

- Mating connectors for Mean Well LPS and LPP series power supplies (pgs 142-144)
- Current rating:
10A AC/DC
- Voltage rating: 250V AC/DC



215950CC

227416CC:

- Material: brass
- Finish: tin-plated
- 18-22 AWG

Quantity
SAVE



227416CC

Part No.	Description	1	10	100	1000
215950CC	5 pos. housing	\$.35	\$.32	\$.28	\$.26
215976CC	8 pos. housing .....	.39	.35	.32	.28
215968CC	12 pos. housing .....	.49	.44	.39	.35
227416CC	Crimp contact .....	.32	.29	.23	.173

Extraction Tools for Crimp Pins

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"
- See right for crimp pins, 42729CC & 42649CC



131887CC

131887CC: Male tool for 42729CC

131879CC: Female tool for 42649CC

Part No.	Product No.	1	10
131887CC	HT319C	\$10.95	\$9.86
131879CC	HT319B	10.95	9.86

Jameco Special Value!

Sale items highlighted
in yellow.
Great quantity
discounts highlighted
in green.



0.2"-Pitch Power Connectors & Pins

Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

Crimp Pin Specifications:

- Material: tin plated brass
- Current rating: 1.5 amps
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99442CC, pg 211

For 5.25" Disk Drives and Power Supplies

42075CC & 42067CC Connector Housings:

- Keyed mating connectors
- External key bar indicates pin 1



42729CC
(Male for 42075CC)



109145CC



117567CC



42649CC
(Female for 42067CC)



42075CC
(Male)



42067CC
(Female)

- See left for extraction tools, 131887CC & 131879CC

• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	10	100	1000
109145CC	4-pin M vert. PCB mtg	\$.59	\$.53	\$.45
117567CC	4-pin M PCB mounting, horizontal edge mount .....	.69	.63	.57
42075CC	4-pin M housing .....	.12	.11	.10
42067CC	4-pin F housing .....	.20	.15	.13
42729CC	M crimp pin for 42075CZ .....	.10	.07	.06
42649CC	F crimp pin for 42067CZ .....	.10	.07	.06

For 3.5" Disk Drives and Power Supplies

- 0.1" pitch



114930CC



114999CC



114921CC

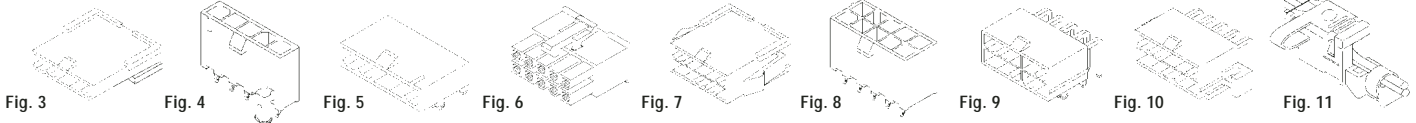
• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	10	100	1000
114930CC	4-pin F housing	\$.19	\$.17	\$.15
114921CC	F crimp pin for 114930CC .....	.11	.095	.08
Part No.	Description	1	100	1000
114999CC	4-pin M rt. angle PCB mtg ..	\$.35	\$.31	\$.28



.165" (4.20mm) Mini-Fit Jr. Connectors

- Use with strain relief or overmold applications
- UL/CSA/TUV approved
- Uses standard Mini-Fit series terminals
- Positive housing lock for secure mating retention
- Fully isolated terminals to protect contacts from damage
- Housing: 6/6 nylon, UL 94V-2 rated



Single Row Receptacles and Plugs

Receptacles

Part No.	Product No.	Fig.	Positions	1	10	100
303765CC	39-01-4030	1	3	\$.43	\$.319	\$.203
303773CC	39-01-4040	1	4 .....40	.318	.268	
303781CC	39-01-4050	1	5 .....39	.315	.265	

Panel Mount Plugs w/ Mounting Ears

Part No.	Product No.	Fig.	Positions	1	10	100
303790CC	39-01-4032	2	3	\$.46	\$.414	\$.276
303829CC	39-01-4052	2	5 .....38	.307	.258	

Panel Mount Plugs w/o Mounting Ears

Part No.	Product No.	Fig.	Positions	1	10	100
303802CC	39-01-4036	3	3	\$.37	\$.302	\$.254
303811CC	39-01-4046	3	4 .....49	.404	.295	
303837CC	39-01-4056	3	5 .....53	.461	.329	

Single Row Headers

- Voltage: 600V
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- Contact: brass or phosphor bronze

Vertical Headers w/ Pegs

Part No.	Product No.	Fig.	Positions	1	10	100
304565CC	39-30-1039	4	3	\$.90	\$.537	\$.433
304573CC	39-30-2035	4	3 .....91	.555	.448	
304581CC	39-30-2045	4	4 ....1.49	1.24	.884	
304590CC	39-30-2056	4	5 ....1.55	.903	.721	

Right Angle Headers w/ Pegs

Part No.	Product No.	Fig.	Positions	1	10	100
304602CC	39-30-3035	5	3 ..	\$1.02	\$.603	\$.482
304611CC	39-30-3045	5	4	1.00	.96	.542
304629CC	39-30-3055	5	5 ....1.55	1.35	.903	

Double Row Receptacles

Part No.	Product No.	Fig.	Positions	1	10	100
303562CC	39-01-2020	6	2	\$.27	\$.215	\$.162
303571CC	39-01-2040	6	4 .....41	.341	.232	
303589CC	39-01-2060	6	6 .....40	.361	.243	
303597CC	39-01-2080	6	8 .....45	.406	.274	
303600CC	39-01-2100	6	10 .....50	.445	.299	
303618CC	39-01-2120	6	12 .....56	.501	.336	
303626CC	39-01-2140	6	14 .....69	.612	.411	
303634CC	39-01-2160	6	16 .....70	.621	.417	
303642CC	39-01-2180	6	18 .....81	.723	.485	
303651CC	39-01-2200	6	20 .....89	.792	.532	
303669CC	39-01-2220	6	22 .....1.20	1.07	.713	
303677CC	39-01-2240	6	24 .....99	.876	.589	

Double Row Plugs

Panel Mount Plugs w/ Mounting Ears

Part No.	Product No.	Fig.	Positions	1	10	100
303685CC	39-01-2021	7	2	\$.32	\$.264	\$.193
303693CC	39-01-2021	7	4 .....47	.392	.267	
303706CC	39-01-2061	7	6 .....51	.364	.268	
303714CC	39-01-2081	7	8 .....42	.371	.25	
303722CC	39-01-2101	7	10 .....50	.445	.299	
303731CC	39-01-2121	7	12 .....51	.454	.305	
303749CC	39-01-2141	7	14 .....70	.517	.399	
303757CC	39-01-2161	7	16 .....75	.602	.523	

Double Row Headers

- Voltage: 600V
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- Contact: brass or phosphor bronze

Vertical Headers w/o Pegs – Tin Plated

Part No.	Product No.	Fig.	Positions	1	10	100
303845CC	39-28-1023	8	2	\$.68	\$.415	\$.344
303853CC	39-28-1043	8	4 .....89	.761	.551	
303861CC	39-28-1063	8	6 ....1.19	.95	.658	
303870CC	39-28-1083	8	8 ....1.37	1.19	.827	
303888CC	39-28-1103	8	10 ....1.65	1.45	.96	
303896CC	39-28-1123	8	12 ....1.79	1.27	.888	
303909CC	39-28-1143	8	14 ....2.25	1.98	1.39	
303917CC	39-28-1163	8	16 ....2.49	2.11	1.46	
303925CC	39-28-1183	8	18 ....2.89	2.56	1.71	
303933CC	39-28-1203	8	20 ....3.39	2.95	2.01	
303941CC	39-28-1223	8	22 ....3.15	2.46	1.68	
303950CC	39-28-1243	8	24 ....3.79	3.16	2.25	

Vertical Headers w/o Pegs – Gold Plated, 30μ"

Part No.	Product No.	Fig.	Positions	1	10	100
303968CC	39-29-0023	8	2	\$.88	\$.686	\$.589
303976CC	39-29-0043	8	4 ....2.05	1.81	1.07	
303984CC	39-29-0063	8	6 ....3.29	2.85	2.00	
303992CC	39-29-0083	8	8 ....4.45	3.97	2.65	
304004CC	39-29-0103	8	10 ....5.05	4.47	2.99	
304012CC	39-29-0123	8	12 ....5.65	5.22	3.49	
304021CC	39-29-0143	8	14 ....6.85	6.08	4.07	
304039CC	39-29-0163	8	16 ....7.75	6.87	4.59	
304047CC	39-29-0183	8	18 ....8.65	7.68	5.14	
304055CC	39-29-0203	8	20 ....9.15	8.12	5.43	
304063CC	39-29-0223	8	22 ....10.55	9.30	6.22	
304071CC	39-29-0243	8	24 ....11.49	10.58	6.76	

Right Angle Headers w/ Pegs – Tin Plated

Part No.	Product No.	Fig.	Positions	1	10	100
304080CC	39-30-1020	9	2	\$.64	\$.566	\$.383
304098CC	39-30-1040	9	4 ....1.02	.907	.604	
304101CC	39-30-1060	9	6 ....1.31	.968	.664	
304119CC	39-30-1080	9	8 ....1.48	1.31	.877	
304127CC	39-30-1100	9	10 ....1.79	1.05	.864	
304135CC	39-30-1120	9	12 ....2.49	2.16	1.47	
304143CC	39-30-1140	9	14 ....2.75	2.38	1.62	
304151CC	39-30-1160	9	16 ....3.05	2.35	1.70	
304160CC	39-30-1180	9	18 ....3.39	3.05	2.05	
304178CC	39-30-1200	9	20 ....3.95	3.49	2.33	
304186CC	39-30-1220	9	22 ....4.45	3.92	2.61	
304194CC	39-30-1240	9	24 ....4.95	4.39	2.92	

Strain Reliefs

- Voltage: 600V
- Current: 9A
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500V
- Insulation resistance: 1000MΩ min.

Part No.	Product No.	Fig.	Positions	1	10	100
304637CC	15-04-0296	11	6 ..	\$1.04	\$1.00	\$.95
304645CC	15-04-0343	11	8 ....1.14	1.08	.979	
304653CC	15-04-0345	11	12 ....1.15	1.10	.998	

Order Anytime 24x7x365

Fig. 1

Fig. 2

Fig. 9

Fig. 10

Fig. 11

Double Row Headers (Continued)

Right Angle Headers w/ Pegs – Gold Plated, 30μ"

Part No.	Product No.	Fig.	Positions	1	10	100
304207CC	39-30-1021	9	2 ..	\$1.69	\$1.50	\$1.00
304215CC	39-30-1041	9	4 ....2.15	1.90	1.26	
304223CC	39-30-1061	9	6 ....2.65	2.36	1.57	
304231CC	39-30-1081	9	8 ....3.19	2.85	1.90	
304240CC	39-30-1101	9	10 ....3.85	3.39	2.26	
304258CC	39-30-1121	9	12 ....3.29	3.25	2.65	
304266CC	39-30-1140	9	14 ....5.25	4.67	3.12	
304274CC	39-30-1161	9	16 ....6.05	5.41	3.60	
304282CC	39-30-1181	9	18 ....4.55	4.39	3.44	
304291CC	39-30-1201	9	20 ....7.25	6.47	4.31	
304303CC	39-30-1221	9	22 ....8.65	7.70	5.13	
304311CC	39-30-1241	9	24 ....10.15	9.05	6.03	

Right Angle Headers w/ Flange – Tin Plated

Part No.	Product No.	Fig.	Positions	1	10	100
304320CC	39-29-1028	10	2	\$.82	\$.685	\$.466
304338CC	39-29-1048	10	4 ....1.06	.865	.665	
304346CC	39-29-1068	10	6 ....1.35	1.06	.782	
304354CC	39-29-1088	10	8 ....1.65	1.26	.876	
304362CC	39-29-1108	10	10 ....1.85	1.55	1.16	
304371CC	39-29-1128	10	12 ....2.15	1.81	1.36	
304389CC	39-29-1148	10	14 ....2.69	2.23	1.63	
304397CC	39-29-1168	10	16 ....2.69	2.46	1.84	
304400CC	39-29-1188	10	18 ....3.15	2.82	1.88	
304418CC	39-29-1208	10	20 ....3.75	3.32	2.21	
304426CC	39-29-1228	10	22 ....3.85	3.41	2.28	
304434CC	39-29-1248	10	24 ....4.69	3.97	2.78	

Right Angle Headers w/ Flange – Gold Plated, 30μ"

Part No.	Product No.	Fig.	Positions	1	10	100
304442CC	39-29-5023	10	2 ..	\$1.65	\$1.43	\$.96
304451CC	39-29-5043	10	4 ....1.85	1.64	1.10	
304469CC	39-29-5063	10	6 ....2.75	2.38	1.62	
304477CC	39-29-5083	10	8 ....3.09	2.75	1.83	
304485CC	39-29-5103	10	10 ....4.09	3.65	2.43	
304493CC	39-29-5123	10	12 ....4.15	3.66	2.44	
304506CC	39-29-5143	10	14 ....5.15	4.55	3.04	
304514CC	39-29-5163	10	16 ....5.89	5.22	3.49	
304522CC	39-29-5183	10	18 ....6.75	5.99	4.01	
304531CC	39-29-5203	10	20 ....7.29	6.47	4.32	
304549CC	39-29-5223	10	22 ....8.65	7.68	5.13	
304557CC	39-29-5243	10	24 ....8.65	8.18	5.47	

Hand Crimp Tools for Mini-Fit Jr. Contacts



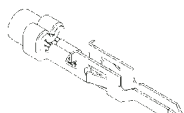
308030CC: Cuts & strips 14-24 AWG wires
227491CC: Cuts & strips 18-30 AWG wires

Part No.	Product No.	Length	Color	1	5
308030CC	W-HT-1919	8.3"L	Red	\$14.99	\$13.99
227491CC	W-HT-1921	8.3"L	Yellow	14.99	13.99

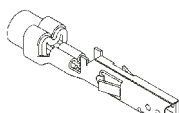
molex .165" (4.2mm) Mini-Fit Jr. Contacts

- Voltage: 600V
- Current: 9A (112A current rating)
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500V
- Insulation resistance: 1000MΩ min.
- Material:
 - *A: Brass (pre-plated tin over copper)
 - *B: Brass or copper (post-plated tin over nickel)
 - *C: Brass (post-plated tin over nickel)
 - *D: Phosphor bronze (pre-plated gold over nickel)

*Prepackaged: order in increments of 10, 100 or 1000



*Fig. 1 (Male)



*Fig. 2 (Female)

Male Contacts

Part No.	Product No.	Desc.*	AWG	1	10	100
304661CC	44478-3112†	1B	16	.....	\$ .20	\$.171 \$.152
304688CC	39-00-0224	1D	16	.....	.85	.704 .508
304709CC	39-00-0096	1C	16	.....	.62	.517 .376
304725CC	39-00-0041	1A	18-24	.....	*	.056 .047
304741CC	39-00-0220	1D	18-24	.....	.76	.704 .389
304792CC	30490-2012	1D	18-24	.....	.25	.244 .209
304805CC	39-00-0054	1C	18-24	.....	.43	.404 .306
304821CC	30490-1012	1D	18-24	.....	.83	.686 .494
304768CC	44478-1112†	1B	22-28	.....	.28	.261 .171
304864CC	39-00-0049	1A	22-28	.....	.20	.071 .07
304881CC	39-00-0222	1D	22-28	.....	.76	.649 .466
304901CC	39-00-0088	1C	22-28	.....	.43	.40 .361

• Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307985CC	39-00-0040	1A	18-24	..... \$ .027

Female Contacts

Part No.	Product No.	Desc.*	AWG	1	10	100
304670CC	4476-3112†	2C	16	.....	\$ .32	\$.261 \$.155
304696CC	39-00-0186	2D	16	.....	.85	.70 .51
304717CC	39-00-0168	2C	16	.....	.58	.479 .346
304733CC	39-00-0039	2A	18-24	.....	*	.064 .059
304750CC	39-00-0182	2D	18-24	.....	.46	.44 .389
304776CC	44476-1112†	2B	18-24	.....	.32	.261 .188
304784CC	44485-1212†	2D	18-24	.....	.88	.733 .523
304813CC	39-00-0164	2C	18-24	.....	.43	.39 .345
304872CC	39-00-0047	2A	22-28	.....	.20	.14 .096
304899CC	39-00-0184	2D	22-28	.....	.45	.435 .428
304910CC	39-00-0166	2C	22-28	.....	.58	.478 .323

• Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307993CC	39-00-0038	2A	18-24	..... \$ .035

molex Hand Tools for Mini-Fit Jr.



- 304928CC: Crimp tool
- Accepts wire range from 14-24 AWG
- 304936CC: Extraction tool

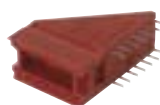
Part No.	Product No.	1	5
304928CC	63811-1000	..... \$42.99	\$39.99
304936CC	11-03-0044	..... 19.99	18.99



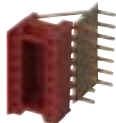
ARIES Series 800 Vertisockets

With Bifurcated Contacts

- Body material: UL 94-HB glass filled nylon
- Phosphor bronze spring tempered bifurcated contacts
- Contact plating: 100μ" (2.54μm) tin or 10μ" (.254μm) gold
- Contact current: 1.5A
- Operating temperature: 221°F (105°C) for tin; 257°F (125°C) for gold
- Suggested PCB hole size: .044" (1.12mm) dia.
- Gold plated (except 296770CC – tin plated)
- Center pins: .300" (except 291231CC – .200")



291477CC



291485CC

Vertical Mount

Part No.	Product No.	Pins L" x W"	1	10	100
291231CC	10-2810-90	10 1.0 x .29 ..	\$4.99	\$4.19	\$3.39
291477CC	14-810-90R	14 1.4 x .39	2.69	2.39	1.85
296770CC	14-810-90T	14 1.4 x .39	3.65	3.25	2.49

Horizontal Mount

Part No.	Product No.	Pins L" x W"	1	10	100
291485CC	14-823-90	14 1.4 x .39 ..	\$4.15	\$3.69	\$2.85

Horizontal Mounting w/ Collet Contacts

- Body material: UL 94-HB glass filled nylon
- Brass alloy pin body w/ 200μ" (5.07μm) 93/7tin/lead plating
- Beryllium copper alloy 4-fingered collet contacts
- Operating temperature: 221°F (105°C)
- Contact current: 3A • Center pins: .300" (7.62mm)
- Suggested PCB hole size: .035" (.89mm) dia.



Part No.	Product No.	Pins L" x W"	1	10	100
295241CC	40-6823-10	40 2.0 x .70	\$12.69	\$11.19	\$8.59

Cinch Jones Plugs and Sockets

Multiple-Density Solder-Eyelet Connectors with Hood and 180° Clamp

- Insulation material: molded mono-block, black phenolic
- Contact material: plug-brass; socket-phosphor bronze
- Contact plating: cadmium
- Hood material: UL 94V-0 rated thermoplastic
- Operating voltage: 250 VAC RMS maximum
- Current rating: 10 amps
- Contact resistance: 16mΩ maximum



248786CC



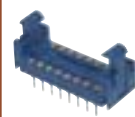
248823CC

Plugs

Part No.	Product No.	Contacts	1	25
248760CC	P-302-CCT	2	..... \$2.15	\$1.96
248778CC	P-303-CCT	3	..... 2.39	2.15
248786CC	P-304-CCT	4	..... 3.09	2.49
248794CC	P-306-CCT	6	..... 2.89	2.62

Sockets

Part No.	Product No.	Contacts	1	25
248807CC	S-302-CCT	2	..... \$2.29	\$2.11
248815CC	S-303-CCT	3	..... 2.69	2.43
248823CC	S-304-CCT	4	..... 2.69	2.46
248831CC	S-306-CCT	6	..... 3.09	2.80

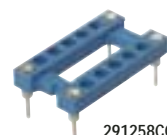


More IC Sockets continued on next page.



ARIES Oscillator Sockets

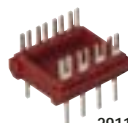
- Body material: blue UL 94V-0 glass filled polyester thermoplastic
- Brass alloy pin, 1/2 hard w/ 200μ" (1.27μm) 93/7 tin/lead plating
- Contact current: 3A
- Center pin spacing: .300" (7.62mm)
- Operating temperature: 221°F (105°C)
- Suggested PCB hole size: .030" (.76mm)



291258CC

Part No.	Prod. No.	Pos.	L" x W"	1	10	100
291282CC	1108800	8	.40 x .40 ..	\$.56	\$.47	\$.38
291258CC	1107741	14	.70 x .40 ....	.56	.47	.38

ARIES DIP Headers and Header Covers



291119CC



291451CC

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon

Series 600 Headers w/ Coined Contacts

- Coined contacts are brass 1/2 hard
- Contact plating: 100μ min., tin
- Contact current rating: 2A
- Operating temperature: 221°F (105°C)
- Fork contacts: accepts up to .025" (.64mm) dia. leads

Part No.	Product No.	Pos.	*W (in.)	1	10	100
291119CC	08-600-10	8	.300 ..	\$1.09	\$.96	\$.79
291311CC	14-600-10	14	.300	1.55	1.37	1.11
291573CC	16-600-10	16	.300	1.69	1.49	1.22
291872CC	18-600-10	18	.300	1.89	1.67	1.35
291944CC	20-600-10	20	.300	2.05	1.79	1.45
291995CC	24-600-10	24	.600	2.49	2.19	1.79
295128CC	28-600-10	28	.600	2.89	2.55	2.06

* Center to center pin width

Series 650 Header Covers

Part No.	Prod. No.	Pos.	*Ht. (in.)	1	10	100
291127CC	08-650-10	8	.125	\$.48	\$.395	\$.309
291338CC	14-650-10	14	.125 ....	.49	.40	.32
291451CC	14-650-20	14	.375 ....	.53	.44	.35
291653CC	16-650-10	16	.125 ....	.52	.43	.35
291661CC	16-650-20	16	.375 ....	.52	.43	.35
291881CC	18-650-10	18	.125 ....	.61	.50	.41
291952CC	20-650-10	20	.125 ....	.60	.50	.41
292007CC	24-650-10	24	.125 ....	.67	.56	.45
292023CC	24-650-20	24	.375 ....	.79	.68	.53
295136CC	28-650-10	28	.125 ....	.87	.74	.59

* Max. component height

Low Profile IC Socket Kit

Includes:

- 20-drawer component cabinet (319599CC), 20 clear plastic drawers (319601CC), 20 clear dividers (319610CC), pg 131 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. 22LP and 24SLP, pg 100
- 20 ea. 18LP, 24LP, 28LP and 40LP, pg 100
- 50 ea. 8LP, 14LP, 16LP and 20LP, pg 100



SAVE \$10

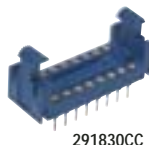
Part No.	Description	Wt. (lbs.)	1	10
85075CC	300 pcs. LP IC socket kit	5.5	\$36.95	\$33.25



EJECT-A-DIP DIP Collet Sockets

With Solder Tail Pins

- Latch and body: UL 94V-0 glass-filled polyester thermoplastic
- Brass alloy pin body w/ 200µ" (5.08µm) 93/7 tin/lead plating
- Beryllium copper alloy 6-fingered collet contact w/ 10µ" (0.25µm) gold plating
- Contact current: 3A
- Insulation resistance: 10,000MΩ @ 500VDC
- Withstanding voltage: 1000VRMS
- Operating temp.: -67°F to 257°F (-55°C to 105°C)
- Center pins: 291493CC/291830CC - .300"; 295216CC/295259CC - .600"
- Suggested PCB hole size: .030" (.76mm) dia.



291830CC

Vertical Mount

Part No.	Product No.	Pins	L" x W"	1	10	100
291493CC	14-C280-10	14	.95 x .40	\$3.09	\$2.49	\$2.05
291830CC	16-C280-10	16	1.05 x .40	3.29	2.65	2.21
295216CC	32-C182-10	32	1.89 x .70	5.55	4.49	3.75
295259CC	40-C182-10	40	2.29 x .70	7.05	5.69	4.75

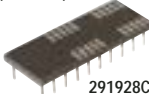


SOIC/SOJ to DIP Adapters

- Board material: .062" thick FR-4 with 1 oz. copper traces on both sides
- Brass alloy pins 1/2 hard with 200µ" (5.08µm) minimum tin plating
- Operating temperature: 221°F (105°C)
- Suggested PCB hole size: .028" (.71mm) dia.

Series 35000X

- Center pins: .300" (7.62mm)
- SOIC package (except 291928CC - SOJ)

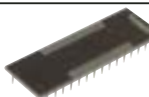


291928CC

Part No.	Product No.	Pins	L" x W"	1	10	100
291207CC	08-350000-10	8	.400 x .460	\$6.59	\$5.59	\$4.50
291291CC	14-350000-10	14	.700 x .450	6.55	5.55	4.49
291514CC	16-350000-10	16	.800 x .450	6.55	5.59	4.49
291864CC	18-350000-10	18	.900 x .450	6.55	5.55	4.49
291910CC	20-350000-10	20	1.0 x .450	6.55	5.55	4.49
291928CC	20-350001-10	20	1.0 x .420	6.05	5.99	5.90
291979CC	24-350000-10	24	1.2 x .450	4.45	3.85	3.75
292074CC	28-350000-10	28	1.4 x .400	6.05	5.23	5.09

Series 45000X

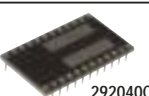
- Center pins: .400" (10.16mm)
- SOJ package



Part No.	Product No.	Pins	L" x W"	1	10	100
295179CC	32-450001-10	32	1.6 x .530	\$8.85	\$7.65	\$7.42

Series 65000X

- Center pins: .600" (15.24mm)
- SOIC package (except 295187CC - SOJ)



292040CC

Part No.	Product No.	Pins	L" x W"	1	10	100
295187CC	32-650000-10	32	1.6 x .700	\$10.15	\$8.70	\$8.45
292040CC	24-650000-10	24	1.2 x .700	9.19	8.55	6.85
295144CC	28-650000-10	28	1.4 x .700	10.15	8.71	8.45



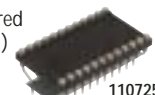
Row-to-Row DIP Adapter Socket

These sockets allow the use of .300" (7.62mm) center devices when the PCB is drilled on .600" (15.24mm) centers and vice versa, giving the flexibility of using .600" or .300" center devices in the same application.

- Socket body: UL 94-HB glass-filled nylon
- Brass alloy pin body w/ 200µ" (1.27µm) 93/7 tin/lead plating
- Beryllium copper alloy 4-fingered collet contact w/ 30µ" (0.76µm) gold plating
- Contact current: 3A
- Operating temp.: 221°F (105°C)
- Suggested PCB hole size: .035" (.89mm) dia.



1106396 Series



1107254 Series

Series 1106396 - .300" to .600" adapter

Part No.	Product No.	Pins	1	10	100
296737CC	1106396-24	24	\$9.69	\$7.39	\$6.60
296745CC	1106396-28	28	10.89	8.29	7.35

Series 1107254 - .600" to .300" adapter

Part No.	Product No.	Pins	1	10	100
296753CC	1107254-24	24	\$9.69	\$7.39	\$6.60
296761CC	1107254-28	28	10.89	8.29	7.35



PLCC Test & Burn-In Zero Insertion Socket

Series 536

- Black body UL 94V-0 glass-filled polyphenylene sulfide
- Beryllium copper alloy contacts w/ 12µ" (.30µm) gold plating
- Contact current: 1A
- Contact resistance: 30mΩ max. (initial)
- Insulation resistance: 1000MΩ min.
- Dielectric strength: 700VAC cont. for 1 minute
- Self inductance: 8.9nH at 10MHz
- Operating temp.: -67°F to 338°F (-55°C to 170°C)
- Size: 1.772"L x 1.339"W



Part No.	Product No.	Pins	1	10	100
295267CC	44-536-11	44	\$60.29	\$53.39	\$50.09



PLCC-to-DIP Adapter with Socket

Series 653000

- Converts PLCC packaged ICs to DIP footprints
- Adapter body: FR-4; .062" (1.58mm) thick with 1 oz. minimum copper traces
- Brass alloy solder tail pins w/ 200µ" (5.08µm) 93/7 tin/lead • Current rating: 1A
- Operating temperature: 221°F (105°C)
- Center pins: .600" (15.24mm)
- Suggested PCB hole size: .028" (.71mm) dia.



295152CC

Part No.	Product No.	Pos.	L" x W"	1	10	100
295152CC	28-653000-10	28	1.4 x .705	\$23.39	\$20.05	\$19.45
295195CC	32-653000-10	32	1.6 x .705	35.65	32.65	26.25



High Temp. Universal Zero Insertion DIP Test

Series X55X

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- Contacts are normally closed to eliminate dependence on plastic to sustain contact
- Socket body: UL 94V-0 glass-filled PPS
- Stainless steel handle • Contact current: 1A
- Beryllium nickel alloy contacts w/ 50µ" (1.27µm) nickel boron • Insulation resistance: 1000MΩ
- Dielectric withstanding voltage: 1000VAC
- Operating temperature: 482°F (250°C)
- Center pins: .600" (15.24mm)
- Gold plating (except 296796CC - tin plating)



292058CC

Part No.	Product No.	Pins	L" x W"	1	10	100
292058CC	26-6554-11	26	1.3 x 0.9	\$10.95	\$9.59	\$9.31
295161CC	28-6554-11	28	1.4 x 0.9	11.85	10.39	10.09
295208CC	32-6554-11	32	1.6 x 0.9	13.15	11.49	11.19
295232CC	40-6554-11	40	2.0 x 0.9	15.69	13.79	13.39
295291CC	48-6554-11	48	2.4 x 0.9	18.39	16.09	15.59
103991CC	24-6554-10	24	1.8 x 0.9	7.49	6.79	5.99
104002CC	28-6554-10	28	2.0 x 0.9	8.45	7.39	7.15
104011CC	32-6554-10	32	2.1 x 0.9	9.95	8.49	8.29
104029CC	40-6554-10	40	2.5 x 0.9	11.25	9.80	9.45
296796CC	48-6554-10	48	2.4 x 0.9	13.49	11.79	11.49



Series 526 Low Profile ZIF Socket

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Contact current: 2A
- Contact resistance: 10mΩ max.
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm)
- Suggested PCB hole size: .035" (0.89mm) dia.



296788CC

Part No.	Product No.	Pins	L" x W"	1	10	100
296788CC	24-526-10	24	1.45 x .75	\$5.65	\$5.19	\$4.39
102744CC	28-526-10	28	1.64 x .75	5.49	4.99	4.49
102752CC	40-526-10	40	2.24 x .75	6.95	6.39	5.75



Series 516 ZIF Sockets

- Body, handle, and cam are 94V-0 glass-filled polyester thermoplastic
- Copper beryllium pins w/ 50µ" (1.27µm) tin plating
- Contact current: 1A
- Operating temperature: 221°F (105°C)
- Center pins: .600" (15.24mm)
- Suggested PCB hole size: .035" (.89mm) dia.



295110CC

Part No.	Product No.	Pins	L" x W"	1	10	100
295110CC	28-516-10	28	1.2 x .785	\$8.99	\$8.19	\$7.75
295224CC	40-516-10	40	2.0 x .780	11.99	10.79	10.19

Corporate Customers



Opening an account is easy!!
Call
1-800-831-4242
for details today.

Headers at Awesome Prices!

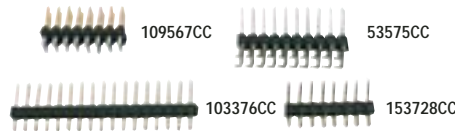
Jameco Part No.	Product No.	Jameco* Price	Digi-Key* Price	Mouser* Price	Newark* Price	Minimum Savings	Discount
68371CC	7110-26SG	\$0.54	\$0.92	\$0.88	\$0.86	\$0.32	37.2%
203916CC	2012-254-2X3RG	\$0.49	\$1.38	\$0.63	\$1.81	\$0.14	22.2%
204046CC	2012-254-2X18RG	\$0.75	\$2.28	\$2.50	\$2.24	\$1.49	66.5%
160881CC	7000-1X40SG	\$0.49	\$1.11	\$0.59	\$1.25	\$0.10	16.9%

These are single unit prices taken from each party's website on December 10, 2004, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

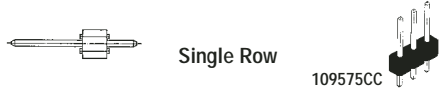
JAMECO ValuePro

.100" Male Headers (Gold)

- Solder to PC boards for instant plug-in access via shorting blocks, right
 - Snap apart to fit your application
 - Contact material: phosphor bronze
 - Current rating: 1 amp
 - Contact area: gold
 - Temperature range: -55°C to +120°C
 - .025" square posts on a .100" x .100" matrix
 - Use with crimp connector housing, pg 101
- *Prepackaged: order in increments of 10, 100 or 1000



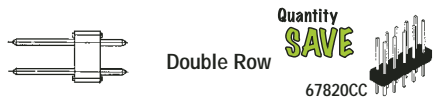
.100" Straight Male Headers



Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
108337CC	SMH02	2	*	\$.16	\$.14	\$.13
109575CC	SMH03	3	*	.17	.15	.135
117559CC	SMH04	4	*	.17	.15	.135
153699CC	SMH06	6	*	.17	.15	.135
153701CC	SMH08	8	*	.20	.17	.15
103392CC	SMH10	10	*	.18	.14	.10
103376CC	SMH17	17	*	.16	.14	.13
103368CC	SMH20	20	*	.25	.23	.21
202825CC	SMH22	22	*	.25	.233	.21
103350CC	SMH25	25	*	.25	.21	.16
103341CC	SMH30	30 .....	.35	.31	.28	.25
68339CC	SMH36	36 .....	.42	.38	.34	.29
160881CC	SMH40	40 .....	.49	.44	.40	.36

JAMECO ValuePro

.100" Straight Male Headers

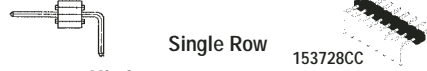


Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
115027CC	923804DS	4	*	\$.10	\$.09	\$.07
115035CC	923806DS	6	*	.18	.16	.14
109516CC	923808DS	8	*	.18	.16	.14
67820CC	923810DS	10	*	.18	.16	.14
203810CC	923812DS	12 .....	.60	.55	.49	.44
118455CC	923814DS	14 .....	.45	.40	.36	.33
109567CC	923816DS	16 .....	.55	.49	.45	.39
203828CC	923818DS	18 .....	.65	.59	.55	.47
53479CC	923862DS	20 .....	.59	.55	.48	.43
203836CC	923822DS	22 .....	.70	.63	.50	.38
203844CC	923824DS	24 .....	.70	.65	.59	.49
203852CC	923828DS	28 .....	.75	.69	.55	.39
203879CC	923830DS	30 .....	.75	.69	.61	.50
203861CC	923832DS	32 .....	.75	.68	.54	.40
53516CC	923864DS	34 .....	.75	.69	.61	.55
203887CC	923836DS	36 .....	.80	.72	.58	.43
203895CC	923838DS	38 .....	.80	.72	.58	.43
53559CC	923866DS	50 .....	.60	.55	.49	.45
68574CC	923860DS	60 .....	.70	.65	.59	.55
103405CC	923872DS	72 .....	.85	.75	.69	.59
117196CC	923880DS	80 .....	.90	.80	.75	.65

Other Manufacturers — Limited Great Deals

53495CC	923863DS	26 .....	.63	.57	.45	.34
53532CC	923865DS	40 .....	.59	.53	.42	.31

.100" Right Angle Male Headers



Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
153728CC	RMH08	8 .....	.45	.40	.30	.25
103270CC	RMH36	36 .....	.75	.64	.58	.41

JAMECO ValuePro

.100" Right Angle Male Headers



Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
203908CC	923804DR	4 .....	.38	.34	.31	.28
203916CC	923806DR	6 .....	.49	.44	.30	.24
203924CC	923808DR	8 .....	.49	.44	.35	.26
203932CC	923810DR	10 .....	.59	.53	.48	.39
203941CC	923812DR	12 .....	.59	.53	.42	.31
203959CC	923814DR	14 .....	.65	.58	.47	.34
203967CC	923816DR	16 .....	.65	.59	.53	.43
203975CC	923818DR	18 .....	.65	.58	.47	.34
53575CC	923820DR	20 .....	.65	.59	.53	.47
203983CC	923822DR	22 .....	.65	.58	.47	.34
203991CC	923824DR	24 .....	.65	.58	.47	.34
53583CC	923826DR	26 .....	.69	.62	.51	.36
204003CC	923828DR	28 .....	.69	.62	.50	.37
204011CC	923830DR	30 .....	.75	.68	.54	.40
204020CC	923832DR	32 .....	.75	.68	.54	.40
204038CC	923834DR	34 .....	.75	.68	.54	.40
204046CC	923836DR	36 .....	.75	.68	.61	.50
204054CC	923838DR	38 .....	.75	.68	.54	.40
53604CC	923840DR	40 .....	.85	.75	.57	.50
53612CC	923850DR	50 .....	.85	.75	.57	.50
103413CC	923872DR	72	1.15	.99	.89	.75
139563CC	923880DR	80	1.35	1.19	1.09	.99

See page 101 for
.100" Non-Polarized
Connector Housings
and Crimp Pins.



JAMECO ValuePro

.100" and 2mm Shorting Blocks



22023CC (open) 112432CC (closed) 152670CC (closed)

- Mates to .025" square posts on .100" centers
- Shorting socket jumper to address or code strip line plugs
- Mate with male headers, above
- Pin material: phosphor bronze

Open: open on top to allow for a test point
Closed: closed – functionally they are the same
119263CC: 2mm shorting block (for disk drives)

- Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	10	100	1000
22023CC	Top open, black (.100")	.12	.09	.06
119263CC	Top open, black (2mm)	.15	.13	.096
112424CC	Top open, blue (.100")	.12	.09	.06
112416CC	Top open, red (.100")	.12	.09	.06
19140CC	Top closed, black (.100")	.12	.09	.06
112441CC	Top closed, blue (.100")	.12	.09	.06
112432CC	Top closed, red (.100")	.20	.18	.12
152670CC	Top closed, black (.100")	.19	.15	.12

JAMECO ValuePro

Machine Contact Single-In-Line Female Sockets

- Machine tooled
- Solder tail and wire wrap



Part No.	Description	1	10	100	500
102200CC	Single x 10-pin	.25	.22	.20	.18
78641CC	Single x 30-pin	.89	.80	.68	.61
175919CC	Single x 36-pin	1.19	1.09	.97	.87
101282CC	Single x 20-pin WW2†	1.49	1.35	1.09	.80
104053CC	Single x 30-pin WW3*	1.95	1.75	1.49	1.35

† Lead length: .435" (2) * Lead length: .575" (3)

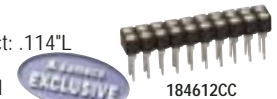
Other Manufacturers — Limited Great Deals

192840CC	Single x 11-pin	.44	.40	.32	.24
----------	-----------------	-----	-----	-----	-----

JAMECO ValuePro

Machine Contact Dual-In-Line Female Sockets

- 0.100" centers
- Solder tail contact: .114" L
- Pin sleeve: tin
- Contact clip: gold



Part No.	Mfr. Cross Ref. No.	Pins	1	10	100
212855CC	SA101000	10 ..	.29	.23	.21
212863CC	SA121000	12 ....	.30	.28	.25
212871CC	SA141000	14 ....	.35	.33	.30
212880CC	SA161000	16 .....	.40	.37	.34
212898CC	SA181000	18 ....	.45	.42	.38
184612CC	SA201000	20 ....	.50	.46	.42
212901CC	SA221000	22 ....	.55	.51	.47
212919CC	SA241000	24 ....	.60	.56	.51
212927CC	SA321000	32 ....	.80	.74	.68
212935CC	SA481000	48 ..	1.20	1.11	1.01

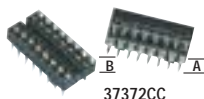
Don't worry about backorders.
Over 99% of our products are in stock!

We'll Send It Today!

Just place your order by 6PM EST
for same business day shipment.

Dual Wipe Solder Tail Low-Profile Sockets

- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)
- Prepackaged: order in increments of 10, 100 or 1000



Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	10	100	1000
112192CC	6LPD	6	0.3	\$.09	\$.06	\$.05
112205CC	8LPD	8	0.3	\$.09	\$.08	\$.07
112213CC	14LPD	14	0.3	\$.10	\$.075	\$.05
112221CC	16LPD	16	0.3	\$.13	\$.115	\$.095
112230CC	18LPD	18	0.3	\$.16	\$.14	\$.12
307977CC	22LPD	22	0.3	\$.14	\$.14	\$.12
112281CC	24SLPD	24	0.3	\$.14	\$.13	\$.09
112299CC	28SLPD	28	0.3	\$.21	\$.19	\$.17
112301CC	32LPD	32	0.6	\$.22	\$.187	\$.14
112310CC	40LPD	40	0.6	\$.26	\$.23	\$.19
167396CC	48LPD	48	0.6	\$.26	\$.23	\$.19

Other Manufacturers — Limited Great Deals

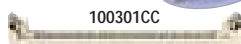
Single & Dual Wipe Low-Profile Sockets

Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	10	100	1000
51570CC	8LP*	8	0.3	\$.063	\$.054	\$.045
37161CC	14LP*	14	0.3	\$.081	\$.063	\$.054
37372CC	16LP*	16	0.3	\$.09	\$.081	\$.054
38113CC	18LP*	18	0.3	\$.099	\$.084	\$.063
38607CC	20LP*	20	0.3	\$.108	\$.09	\$.063
112248CC	20LPD†	20	0.3	\$.153	\$.13	\$.098
39132CC	22LP*	22	0.4	\$.108	\$.09	\$.085
39378CC	24SLP*	24	0.3	\$.153	\$.13	\$.098
39335CC	24LP*	24	0.6	\$.16	\$.15	\$.11
112264CC	24LPD†	24	0.6	\$.158	\$.136	\$.122
40301CC	28LP*	28	0.6	\$.171	\$.117	\$.081
112272CC	28LPD†	28	0.6	\$.189	\$.161	\$.12
41110CC	40LP*	40	0.6	\$.171	\$.153	\$.108
112326CC	64LPD†	64	0.9	\$.162	\$.139	\$.104

* Included in IC Socket Kit, pg 97 † Dual Wipe

SIMM Sockets

- Locking tabs
- Tinned contacts
- Memory module sockets
- Keyed mounting posts



Part No.	Description	1	10	100	500
100301CC	Single x 30-pin, vert.	\$.52	\$.47	\$.43	\$.39

Other Manufacturers — Limited Great Deals

72531CC	Dual x 30-pin, vert.	\$.24	\$.22	\$.17	\$.13
---------	----------------------	-------	-------	-------	-------

PLCC Surface Mount Sockets

- Current: 1A
- Dielectric strength: 600VAC for 1 minute
- Insulator resistance: 5000MΩ minimum
- Temperature surface mount: -55°C / +170°C

152688CC Dimensions in mm

Part #	A & B	C & D	E
152688	23.18	12.70	28.50
152696	30.80	20.32	40.00

Part No.	Mfr. Cross Ref. No.	Pins	1	10	50	100
152688CC	PLCC44D	44	\$.75	\$.68	\$.54	\$.40
307951CC	850-68-99ST	68	\$.86	\$.78	\$.69	\$.66

Other Manufacturers — Limited Great Deals

152696CC	PLCC68D	68	\$.62	\$.56	\$.476	\$.357
----------	---------	----	-------	-------	--------	--------

Machine Tooled Solder Tail Low-Profile Sockets

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Multiple contact elements
- Material: beryllium copper or phosphor bronze
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Thru-hole lead length: .177" (A)
- Body height: .117" (B)



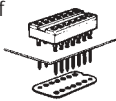
Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10	100	1000
167003CC	6MLPT	6	0.3	\$.29	\$.26	\$.18	\$.16
51625CC	8MLP	8	0.3	\$.25	\$.22	\$.19	\$.17
37196CC	14MLP	14	0.3	\$.42	\$.38	\$.33	\$.30
37401CC	16MLP	16	0.3	\$.47	\$.43	\$.37	\$.34
65584CC	18MLP	18	0.3	\$.55	\$.49	\$.43	\$.39
38623CC	20MLP	20	0.3	\$.59	\$.55	\$.45	\$.39
39386CC	24SMLP	24	0.3	\$.65	\$.59	\$.47	\$.35
114411CC	28SMLP	28	0.3	\$.85	\$.75	\$.65	\$.55
40328CC	28MLP	28	0.6	\$.83	\$.75	\$.65	\$.59
105380CC	32MLP	32	0.6	\$.95	\$.85	\$.75	\$.65
41136CC	40MLP	40	0.6	\$.1.19	1.05	\$.79	\$.69
42059CC	48MLP	48	0.6	\$.1.29	1.18	\$.95	\$.71
200707CC	64MLP	64	0.9	\$.1.35	1.25	1.15	\$.99

Other Manufacturers — Limited Great Deals

192209CC	224SMLP	22	0.4	\$.53	\$.48	\$.387	\$.29
39351CC	24MLP	24	0.6	\$.65	\$.59	\$.47	\$.35
184680CC	284SMLP	28	0.4	\$.80	\$.72	\$.58	\$.43

Wire Wrap Socket I.D. Markers

- Quick identification of pin numbers
- Slips onto socket before wrapping
- Plastic
- Can easily write location, part number or function



Part No.	Prod. No.	Pins	Width (in.)	1	10	100	500
51561CC	8ID	8	0.3	\$.44	\$.35	\$.30	\$.28
37145CC	14ID	14	0.3	\$.35	\$.31	\$.28	\$.24
37356CC	16ID	16	0.3	\$.29	\$.26	\$.25	\$.23
38105CC	18ID	18	0.3	\$.49	\$.45	\$.39	\$.35
38586CC	20ID	20	0.3	\$.55	\$.49	\$.45	\$.41
39327CC	24ID	24	0.6	\$.59	\$.52	\$.43	\$.38
40299CC	28ID	28	0.6	\$.65	\$.55	\$.45	\$.41
41101CC	40ID	40	0.6	\$.89	\$.79	\$.69	\$.65

PLCC Solder Tail Sockets

- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125"
- Body height: .375"



Part No.	Mfr. Cross Ref. No.	Pins	1	10	50	100
71263CC	G1P428	28	\$.56	\$.44	\$.34	\$.29
71811CC	G1P432	32	\$.55	\$.48	\$.41	\$.39
71618CC	G1P444	44	\$.1.15	\$.99	\$.81	\$.69
72442CC	G1P452	52	\$.99	\$.79	\$.65	\$.55
71968CC	G1P468	68	\$.1.15	\$.99	\$.89	\$.79
71976CC	G1P484	84	\$.1.29	1.19	\$.93	\$.70

Level 1, 2 & 3 Wire Wrap Sockets

- Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Thru-hole lead length: .315" (L1); .438" (L2); .638" (L3)
- Body height: .300" (A)



Gold (WW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
51641CC	8WW2	8	0.3	\$.1.49	1.29	\$.1.19	\$.99
37233CC	14WW2	14	0.3	1.49	1.35	1.19	1.09
37479CC	16WW2	16	0.3	1.75	1.59	1.43	1.29
196859CC	18WW3	18	0.3	1.55	1.37	1.20	1.09
38674CC	20WW2	20	0.3	2.25	1.99	1.82	1.65
39394CC	24WW2	24	0.6	1.85	1.63	1.43	1.33
40352CC	28WW2	28	0.6	2.19	1.99	1.75	1.60
41187CC	40WW2	40	0.6	3.15	2.80	2.45	2.29

Tin (TWW)

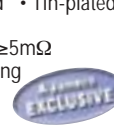
Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
112660CC	8TWW2	8	0.3	\$.86	\$.61	\$.58	\$.55
37217CC	14TWW2	14	0.3	1.15	1.03	\$.93	\$.84
37436CC	16TWW2	16	0.3	\$.99	\$.89	\$.73	\$.66
87636CC	18TWW2	18	0.3	1.09	\$.98	\$.81	\$.73
75379CC	20TWW2	20	0.3	1.69	1.52	1.35	1.23
75416CC	24TWW2	24	0.6	1.49	1.35	1.09	\$.79
75424CC	28TWW2	28	0.6	1.89	1.63	1.36	1.22
41179CC	40TWW2	40	0.6	2.49	2.15	1.79	1.59

Other Manufacturers — Limited Great Deals

196832CC	14WW1	14	0.3	\$.1.05	\$.94	\$.76	\$.57
196841CC	14TWW3	14	0.3	\$.82	\$.74	\$.59	\$.44

Level 3 Machine Tooled Wire Wrap Sockets

- Contact plating: gold
- Tin-plated leads
- Contact resistance: 3A
- Contact resistance: ≥5mΩ
- Dielectric withstanding voltage: 300Vrms
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Body height: .115" (A)
- Thru-hole lead length: .365" (L2); .515" (L3)



Part No.	Mfr. Cross Ref. No.	Pins	Width (in.)	1	10	100	500
94473CC	8MSWW3	8	0.3	\$.53	\$.46	\$.38	\$.34
62050CC	14MSWW3	14	0.3	\$.93	\$.80	\$.67	\$.60
37410CC	16MSWW3	16	0.3	1.09	\$.93	\$.78	\$.69
94481CC	18MSWW3	18	0.3	1.09	\$.93	\$.78	\$.74
38631CC	20MSWW3	20	0.3	1.33	1.14	\$.95	\$.86
185324CC	22MSWW3	22	0.3	1.39	1.25	1.13	\$.85
105371CC	24MSWW3	24	0.3	1.49	1.29	1.08	\$.97
94490CC	24MSWW3	24	0.6	1.35	1.15	\$.97	\$.89
200715CC	283MSWW3	28	0.3	1.69	1.43	1.19	1.07
40336CC	28MSWW3	28	0.6	1.69	1.43	1.19	1.07
117057CC	32MSWW3	32	0.6	2.19	1.99	1.79	1.49
94502CC	40MSWW3	40	0.6	2.65	2.28	1.90	1.71
200723CC	48MSWW3	48	0.6	2.99	2.69	2.39	2.15
200731CC	64MSWW3	64	0.9	2.59	2.37	2.15	1.96

Other Manufacturers — Limited Great Deals

192831CC	224MSWW3	22	0.4	1.29	1.16	\$.93	\$.70
313656CC	24MSWW3	24	0.6	1.19	1.05	\$.88	\$.79

100" Non-Polarized Connector Housings and Crimp Pins

- Mates with .025" square post on pattern of .100" centers (male headers, see pg 99)
- Current rating: 1A • Pin material: brass/tin plated
- Pin wire gauge: 26-22 AWG • Plastic
- Temperature rating: -55°C to +105°C
- Use 159265CC pin crimper, pg 211 and 100765CC below

* Prepackaged: order in increments of 10, 100 or 1000

		Single Row					
		103190CC	100765CC				
Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000	
100811CC	SCH2	2	..... *	\$ .23	\$.21	\$.17	
157382CC	SCH3	3	..... *	.24	.22	.18	
100802CC	SCH4	4	..... *	.25	.23	.19	
163686CC	SCH5	5	..... .30	.27	.25	.22	
103211CC	SCH6	6	..... .34	.31	.27	.21	
103202CC	SCH8	8	..... .39	.35	.29	.25	
103190CC	SCH10	10	..... .42	.39	.36	.31	
103181CC	SCH20	20	..... .49	.45	.39	.35	
103157CC	SCH36	36	..... .49	.45	.39	.35	
100765CC	FCH1	Female pin	..... *	.11	.09	.06	
145357CC	MCH1	Male pin	..... *	.15	.135	.12	

		Double Row					
		145357CC	103253CC				
Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000	
103253CC	DCH8	8	..... \$ .59	\$.53	\$.45	\$.39	
157420CC	DCH10	10	..... .69	.62	.55	.49	
157438CC	DCH14	14	..... .73	.71	.69	.59	
103237CC	DCH16	16	..... .79	.71	.64	.54	
103229CC	DCH20	20	..... .99	.89	.79	.69	
157462CC	DCH40	40	..... 1.09	.99	.89	.75	
157471CC	DCH50	50	..... .65	.59	.47	.35	
100765CC	FCH1	Female pin	..... *	.11	.09	.06	
145357CC	MCH1	Male pin	..... *	.15	.135	.12	

USB-A & B Connectors and Pins

1.0 and 2.0

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	500
161023CC (USB-A)	174060CC (USB-B)	230965CC				

- 174060CC: USB-A & B (2.0) Male Connector
- 3-part housing: tin plate over brass and glass fiber
- 4-pins (P/N 159724CC, see web) required per USB connector

161023CC/230949CC/230957CC:

USB-A & B (1.0 & 2.0) Female Connectors

- PC mount right angle with board locks

230965CC: Male Crimp Pin

- Pin for P/N 174060CC (4 required) • Contact: gold
- Use P/N 159265CC for crimping tool, pg 211

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
161023CC	USB-A 1.0 conn. (F) ...	\$.79	\$.69	\$.62	\$.56
230949CC	USB-A 2.0 conn. (F) .....	.99	.85	.55	.42
174060CC	USB-B 2.0 conn. (M) .....	.79	.69	.62	.56
230957CC	USB-B 2.0 conn. (F) .....	.99	.85	.55	.42
230965CC	Crimp pin (M) for 2.0	*	.125	.09	.065

100" Low Profile Keyed Shrouded Headers & Connector CD-ROM 4-Pin Headers and Connector

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
152741CC	152725CC	152733CC				

- Voltage rating: 250V AC/DC
- Current rating: 3A AC/DC
- Insulation resistance: 1000MΩ min.
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000V AC/minute
- Pin material: tin-plated brass
- Recommended crimp tool P/N 99442CC, pg 211

* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
152741CC	Straight header	\$.45	\$.39	\$.35	\$.29
152725CC	Right angle header ...	.55	.50	.40	.30
152733CC	Single w/ latch ↑ .....	.43	.37	.22	.16
181673CC	Female pins	*	.11	.08	.06

↑ P/N 152733CC requires 4 pins (P/N 181673CC)

100" DIP Header Plugs

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: .188" • 0.1" spacing between leads

Part No.	Mfr. Cross Ref. No.	Width	Pins	1	10	100
104336CC	8HP	0.3"	8	..... \$ .79	\$.67	\$.57
37129CC	14HP	0.3"	14	..... 1.19	.99	.89
37330CC	16HP	0.3"	16	..... 1.35	1.25	1.09
38578CC	20HP	0.3"	20	..... 1.49	1.35	1.19

100" IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Plastic with gold-plated contacts
- Uses 28 AWG flat ribbon cable, pg 78
- Current rating: 1 amp

Part No.	Mfr. Cross Ref. No.	Width	Contacts	1	10	100	500
42657CC	609-14	0.3"	14	..... \$ .49	\$.40	\$.35	\$.29
42673CC	609-16	0.3"	16	..... .55	.45	.35	.30
104096CC	609-20	0.3"	20	..... .69	.62	.55	.49
42690CC	609-24	0.6"	24	..... .79	.71	.64	.59
99670CC	609-28	0.6"	28	..... .89	.80	.72	.59
42711CC	609-40	0.6"	40	..... 1.15	1.05	.95	.85

Card-Edge Connectors

- Fits all PC boards • .054" to .070" thick

Solder Eyelet .140" Spacing Between Rows

- Contact centers: .156" • With mounting ears

Part No.	Position	Contacts	1	10	100
39116CC	22/44	Gold	\$2.95	\$2.65	\$2.38

Solder Tail .200" Spacing Between Rows

- Contact centers: .100"
- Without mounting ears

Part No.	Position	Contacts	1	10	100
40694CC					
40694CC	31/62	Tin (PC/AT)	\$.93	\$.82	\$.65
42091CC	49/98	Tin (AT) .....	.89	.59	.39

10' Fiber Optic Cable

- 1000µm core jacketed plastic fiber optic cable (10')

Part No.	Product No.	1	10
171272CC	IF-C-E1000	\$6.95	\$6.25

Fiber Optic Infrared Detectors

- Mates with standard 1000µm core jacketed plastic fiber cable
- Connector-less fiber termination and connection
- Inexpensive plastic connector housing
- Compatible with LED emitters, below
- Interference-free transmission from light-tight housing
- Internal micro-lens for efficient coupling

169990CC: TTL compatible output infrared detector

169981CC: TTL open-collector output infrared detector

Part No.	Prod. No.	Color Dot	Peak Wavelength Sensitivity	1	10
169990CC	IF-D95T	Yellow	800nm ...	\$5.75	\$4.69
169981CC	IF-D96	White	850nm	7.99	7.35

Infrared and Visible Light Fiber Optic LED Emitters

- Mates with standard 1000µm core jacketed plastic fiber cable (recommend P/N 171272CC, above)
- Internal micro-lens for efficient coupling
- Connector-less fiber termination and connection
- Interference-free transmission from light-tight housing
- Excellent linearity
- Compatible with fiber optic photo detectors, above

Peak Wavelength Sensitivity:

169957CC: 950nm, Vf=1.7V max @ 50mA

169965CC: 660nm, Vf=1.8V max @ 50mA

169949CC: 660nm, Vf=1.8V max @ 50mA

Part No.	Product No.	Color Dot	1	10
169957CC	IF-E91A	Blue	\$2.99	\$2.49
169965CC	IF-E96	Pink	5.35	4.89
169949CC	IF-E97	Red	5.75	4.75

For Fiber Optic Kits, see page 239.



Even lower OEM pricing for larger orders!

Corporate Customers

Call 1-800-831-4242 for details today.

JAMECO ValuePro DIN and Mini DIN Plugs and Receptacles

- Solder barrels including strain relief
- See page 78 for cable

Part No.	Pins	Type	1	10	100
142279CC	4	Mini plug	\$.79	\$.68	\$.53
142261CC	6	Mini plug	\$.89	\$.77	\$.59
177244CC	6	Mini receptacle	\$.99	\$.85	\$.69
111878CC	8	Mini plug	\$.99	\$.89	\$.74
177236CC	8	Mini receptacle	1.09	.93	.69
15878CC	5	DIN plug	\$.52	\$.47	\$.41
180873CC	5	DIN receptacle	\$.52	\$.45	\$.34
15886CC	6	DIN plug	\$.59	\$.50	\$.39
15894CC	8	DIN plug	\$.65	\$.56	\$.43

JAMECO ValuePro DIN Female Sockets

- Metal body
- Panel mount with solder lugs

Part No.	Mfr. Cross Ref. No.	# of pins	1	10	100	500
15843CC	DINJ5	5	\$1.29	\$1.15	\$1.05	\$.79
15851CC	DINJ6	6	1.39	1.25	1.15	.99
15860CC	DINJ8	8	1.49	1.35	1.15	1.05

JAMECO ValuePro Right Angle DIN Female Sockets

- Set back: 0.5"
- PC mount contacts

Part No.	Mfr. Cross Ref. No.	# of pins	1	10	100	500
140792CC	MDR4S	4 (mini)	\$.69	\$.59	\$.46	\$.34
119474CC	MDR6S	6 (mini)	..75	.68	.54	.40
29399CC	RD5	5	.59	.53	.40	.36

Other Manufacturers — Limited Great Deals

- Set back: 0.5"
- PC mount contacts
- Plastic/metal body

Part No.	Mfr. Cross Ref. No.	# of pins	1	10	100	500
140791CC	MDR4S	4 (mini)	\$.62	\$.56	\$.45	\$.33
207722CC	MDS8100	8 (mini)	..89	.80	.64	.48

JAMECO ValuePro PCB Centronics Connectors

- Solder-type contacts
- Space between rows: .164"
- Space between pins: 0.1"
- Metal body
- PC mount

Part No.	Description	1	10	100
72151CC	36-contact fem., rt angle	\$3.55	\$3.19	\$2.87
72080CC	50-contact fem., rt angle	4.95	4.45	3.95

Other Manufacturers — Limited Great Deals

159708CC	36-contact fem., straight	\$1.25	\$1.12	\$.84
----------	---------------------------	--------	--------	-------

JAMECO ValuePro IDC Centronics Connector

- Contact material: gold plated phosphor bronze; plastic casing
- Current rating: 1 amp
- Temp. rating: -55°C to +105°C
- Use 73251CC IDC crimping tool, pg 211

Part No.	Mfr. Cross Ref. No.	Description	1	10	100
13848CC	CEN36M	36-contact male	\$1.75	\$1.55	\$1.39

JAMECO ValuePro .100" IDC Plug Connectors

- .100" x .100" grid
- Plastic
- Shrouded header w/o mounting ears
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors, right

Part No.	Cross Ref. No.	Contacts	1	10	100
29188CC	P40	40	\$1.95	\$1.75	\$1.49
29217CC	P50	50	1.95	1.75	1.49

JAMECO ValuePro .100" Low-Profile Male Shrouded Headers

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Features: UL recognized, CSA certified; .025" square post mates with sockets on .100" x .100" grid
- Contact: phosphor bronze, gold plated
- Use with IDC socket connectors, above

Straight Male Headers

Part No.	Description	1	10	100	1000
67811CC	10-pin	\$.39	\$.35	\$.32	\$.28
68179CC	16-pin	..44	.40	.35	.32
68291CC	20-pin	..49	.47	.39	.23
68371CC	26-pin	..54	.42	.35	.21
68582CC	34-pin	..79	.65	.46	.31
181104CC	40-pin	..75	.60	.45	.315

Other Manufacturers — Limited Great Deals

Right Angle Male Header

Part No.	Description	1	10	100	1000
211182CC	26-pin	\$.41	\$.37	\$.30	\$.22

JAMECO ValuePro .100" (2.5mm) Female Header Receptacles

- Gold plated contacts
- 0.1" contact center

Right Angle Mount (Side Entry)

Part No.	Contacts	Type	1	10	100	500
71159CC	20	Double row	\$1.25	\$1.10	\$.99	\$.85

Vertical Mount (Top Entry)

Part No.	Contacts	Type	1	10	100	500
70754CC	8	Single row	\$.59	\$.53	\$.43	\$.35
200782CC	12	Single row	..79	.59	.45	.42
308591CC	16	Single row	..58	.48	.31	.243
308566CC	20	Single row	..69	.57	.37	.289
70720CC	16	Double row	..89	.79	.72	.65
70826CC	20	Double row	..99	.89	.71	.53
105056CC	30	Double row	1.09	.98	.88	.74
111704CC	40	Double (Tin)	1.29	1.15	.99	.89

Other Manufacturers — Limited Great Deals

163862CC	34	Double row	\$1.05	\$.94	\$.76	\$.57
----------	----	------------	--------	-------	-------	-------

JAMECO ValuePro Centronics Parallel Interface Connector

- Metal Body and Shell Solder-Type Contacts
- Solder eyelets accept 24 AWG wire, pg 78
- Male cable plugs
- Complete with cable boot, shell and hardware

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	50
42382CC	57-30360	36	\$1.79	\$1.59	\$1.49

JAMECO ValuePro .100" & 2mm IDC Socket Connectors

- Double Row
- Mates with 2 rows of .025" Sq. or Dia. posts on patterns of .100" centers (male headers, see below)
- Industry standard IDC socket (plastic)
- Temperature rating: -55°C to +105°C
- Use crimp P/N 73251CC, pg 211

Polarized IDC Socket Connectors

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
32491CC	S10	10	\$.29	\$.25	\$.19	\$.15
153947CC	S14	14	..32	.27	.21	.16
119466CC	S16	16	..35	.29	.22	.17
32521CC	S20	20	..39	.32	.25	.18
32563CC	S26	26	..45	.35	.29	.19
32643CC	S34	34	..49	.39	.35	.25
32678CC	S40	40	..55	.45	.39	.29
100386CC	IDC440*	44 (2mm)	.99	.89	.75	.59
32707CC	S50	50	..65	.55	.45	.35
32758CC	S60	60	..75	.68	.61	.50

*2mm pin spacing

Non-Polarized IDC Socket Connectors

Part No.	Mfr. Cross Ref. No.	Contacts	1	10	100	1000
138376CC	SN10	10	\$.35	\$.32	\$.28	\$.24
138325CC	SN20	20	..45	.40	.36	.28
138333CC	SN26	26	..39	.35	.32	.24
138341CC	SN34	34	..45	.40	.35	.28
138350CC	SN40	40	..49	.45	.39	.29
138368CC	SN50	50	..65	.59	.467	.35

JAMECO ValuePro .100" (2.5mm) Straight Male Headers

With Standard Latch

- Double Row
- 0.1" contact center
- Mount vertical
- Keying slot
- Use with IDC socket connectors, above

Part No.	Description	1	10	100	500
117663CC	10-pin	\$1.29	\$1.16	\$.99	\$.61
71829CC	20-pin	1.39	1.25	1.13	.95
71933CC	26-pin	1.49	1.25	.99	.89
72215CC	50-pin	1.85	1.65	1.49	1.35

PANAVISE IDC Bench Press and Cable Cutter

- Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
27174CC	M505	Bench press	7.0	\$179.95	\$159.95

M505 Accessories

27182CC	M507	Cable cutter	0.9	\$66.95	\$61.95
27203CC	M510	Base plate	0.5	26.49	23.49

See page 78 for Gray and Multicolor Ribbon Cables.

Slim-Line D-Sub Gender Changers



For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)

Part No.	Description	1	10	100
18497CC	9-pin male	\$4.95	\$4.49	\$3.99
18489CC	9-pin female	4.95	4.49	3.99
56071CC	15-pin male	3.95	3.49	2.95
56063CC	15-pin female	3.95	3.39	2.55
119319CC	15-pin female HD	4.29	3.89	3.49
119301CC	15-pin male HD	4.95	4.49	3.95
18446CC	25-pin male	4.95	4.49	3.99
18420CC	25-pin female	4.95	4.49	3.99
170085CC	25-pin M-F (pass through)	2.95	2.65	2.35

D-Sub 9-Pin to 25-Pin Serial Adapters

10321CC: For PC/XT systems with DB25 serial ports.

139985CC: gold-plated contacts, extra long thumbscrews

Part No.	Description	1	10	100
10321CC	DB9 M to DB25 F	\$4.49	\$3.79	\$3.19
189632CC	DB9 M to DB25 M	3.49	3.15	2.85
139985CC	DB9 F to DB25 F	3.95	3.55	3.19

Other Manufacturers — Limited Great Deals

D-Sub 9-Pin to 25-Pin Serial Adapters

10305CC: For use in AT or other computer systems that have 9-pin D-subserial ports.

163740CC/153576CC:

For PC/XT systems with DB25 serial ports.

Part No.	Description	1	10	100
10305CC	DB9 F to DB25 M	\$3.15	\$2.69	\$1.99
163740CC	DB9 M to DB25 F, thumbscrews on DB9 side only	2.55	2.19	1.65
153576CC	DB9 M to DB25 F, thumbscrews on DB25 side only	3.55	2.99	2.25

Full Handshaking Null Modem Adapters

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.



Part No.	Description	1	10	100
17224CC	1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20			
26243CC	1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7			
26243CC	DB25 M to DB25 F	\$3.95	\$3.65	\$3.49
17224CC	DB25 F to DB25 F	3.49	2.95	2.49

Standard D-Sub Gender Changers



- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

Part No.	Description	1	10	100
16635CC	D-sub 9-pin male	\$1.95	\$1.75	\$1.49
16643CC	D-sub 9-pin female	1.95	1.75	1.49
22058CC	D-sub 25-pin male	1.95	1.49	1.05
22074CC	D-sub 25-pin female	1.99	1.79	1.65

Keyboard Adapters



159089CC/189771CC: AT keyboard adapter

- Connects PS/2 keyboard to AT

• 6-pin female mini DIN to 5-pin male DIN

159097CC: PS/2 keyboard adapter

- Connects AT type keyboards to the PS/2

• 5-pin female DIN to 6-pin male mini DIN (PS/2)

316831CC: USB to PS/2 keyboard adapter

- USB-A female to PS/2 male

Part No.	Length	Housing	1	10	100
159089CC	1.6"	Metal	\$2.95	\$2.65	\$2.39
159097CC	1.4"	Metal	2.95	2.65	2.39
189771CC	1.7"	Plastic	2.95	2.65	2.39
316831CC	2.0"	Plastic	1.79	1.59	1.39

Other Manufacturers — Limited Great Deals

PS/2 Keyboard Adapter

- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

Part No.	Length	Housing	1	10	100
157930CC	1.7"	Plastic/metal	\$2.65	\$2.25	\$1.69

Gender Benders Save Money

I have a box of cables for those "just in case" situations. I go to it five or six times a year. Usually a cable turns up that is almost right; perhaps a PS/2 extension cable when I need a PS/2 to AT cable.

My solution? While I have the most common cables in my stash box, I also keep a supply of gender benders (i.e., changers) with the cables. When a situation comes up, I usually have the solution immediately available. Later, I replace the improvised solution with the right cable and reclaim my gender changer(s). I'm a hero to the person with the problem, and I don't spend inordinate amounts of time looking for a solution.

Practical Practices
Money Saving Tips for the Engineer

Computer Card Brackets



- For securing cards into bus slots
- Fits standard PC/XT/AT cases
- Length: 4.75"
- See pg 91 for DB connectors

Part No.	Description	Fig.	1	10	100
11754CC	Blank back panel	1	\$1.79	\$1.59	\$1.45
101717CC	For DB9 connector	2	1.79	1.59	1.45
101733CC	For DB25 connector	3	1.79	1.59	1.45
101741CC	For DC37 connector	4	1.79	1.59	1.45
101830CC	For DB9/DB25 conn.	5	1.79	1.59	1.45

Panel Bracket Cable Assemblies

- Standard computer back panel brackets
- Length: 12"
- Ribbon cable with header connector



Part No.	Description	1	10	25
149614CC	DB9M to 10-pin header			
	DB25M to 10-pin header	\$4.95	\$4.45	\$3.99
149622CC	DB25 to 26-pin header	4.95	3.75	2.65
179995CC	DB9M to 10-pin header			
	DB25M to 10-pin header			
	DB25F to 26-pin header	1.19	1.01	.76

SCSI Adapters



- See below for SCSI-type connector guide

Part No.	Description	1	10	50
133920CC	50-pin ribbon header			
	SCSI-I to DB25 female	\$6.95	\$5.05	\$4.59
125241CC	50-pin ribbon header to HPDB50 SCSI-II female	9.95	8.45	6.35
167370CC	DB25 female to HPDB50 male SCSI-II	\$3.55	2.09	1.89
			1.75	

SCSI TYPE / CONNECTOR REFERENCE TABLE

SCSI type	50-pin Centronics DB25	50-pin Header	Half pitch DB50	VHD8 Centronics	VHD8 Centronics	VHD8 Centronics
SCSI-I	✓	✓	✓			
SCSI-II			✓	✓		
SCSI-II wide					✓	
SCSI-III					✓	✓
RAID: SCA, SCA-2						✓

See page 81 for USB Gender Adapters.



Amphenol

BNC Connectors and Adapters

- Frequency range: 0-4GHz
- Working voltage: 500V
- Contact plating: silver/gold
- Body plating: nickel/tin-lead
- Cable type:
 - 223360CC: RG55/141/142/223/400
 - 223394CC: RG59/62/71/140/210/302
 - 223474CC: RG59/62/140/210, Belden 8241/8263/8279/9209
 - 223693CC: RG5/9/87A/214/313/325

New Lower Prices



Fig. 1 Fig. 2 Fig. 3

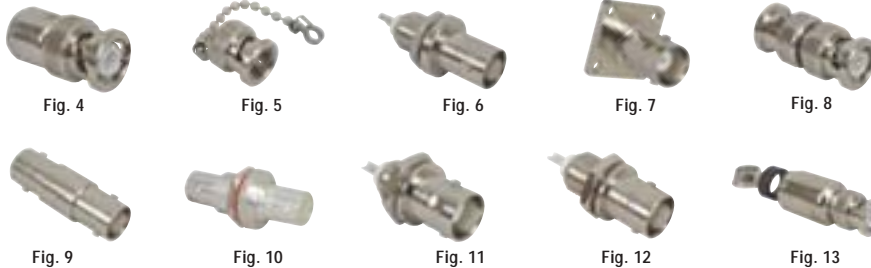


Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8 Fig. 9 Fig. 10 Fig. 11 Fig. 12 Fig. 13

Part No.	Product No.	Fig.	Industry No.	Description	1	10	25
223431CC	31-202	1	UG-88C/U	50Ω plug, straight, solder cup	\$4.35	\$3.69	\$2.65
223360CC	31-5	2	UG-89/U	50Ω jack, straight, clamp/solder	5.05	4.54	3.35
223378CC	31-8	3	UG-274/U	50Ω/75Ω T-adaptor, jack-plug-jack	12.69	10.42	8.05
223458CC	31-208	3	UG-274A/U	50Ω T-adaptor, jack-plug-jack	8.59	6.59	6.49
223394CC	31-12	4	UG-260/U	50Ω plug, straight, clamp	7.29	5.54	5.14
223474CC	31-212	4	UG-260B/U	50Ω plug, straight, clamp/solder	4.19	3.21	2.95
223415CC	31-17	5	CW-159/U	50Ω male shorting cap	6.09	5.73	4.36
223423CC	31-102	6	UG-657/U	50Ω bulkhead receptacle, straight, solder cup	5.35	4.99	4.09
223440CC	31-203	7	UG-290A/U	50Ω receptacle, straight/flange, solder cup	6.79	5.31	3.60
223482CC	31-218	8	UG-491A/U	50Ω in-series adapter, plug-plug	9.15	7.02	4.89
223491CC	31-219	9	UG-914/U	50Ω in-series adapter, jack-jack	4.55	4.22	2.99
223554CC	31-3220	10	UG-492D/U	50Ω bulkhead adapter, straight, jack-jack	\$11.65 10.25	8.83	7.88
223511CC	31-221	11	UG-1094/U	50Ω bulkhead receptacle, straight, solder cup	2.49	1.94	1.45
223538CC	31-2221	12	UG-1094A/U	50Ω bulkhead receptacle, straight, solder cup	2.89	2.48	1.87
223520CC	31-236	11	UG-625B/U	50Ω bulkhead receptacle, straight, pin/pin	2.69	2.16	1.45
223685CC	5575	11	UG-625/U	50Ω bulkhead receptacle, solder	\$4.45 4.15	3.36	3.08
223693CC	6775	13	UG-959/U	50Ω right angle plug, clamp/solder	12.59	9.56	8.54

Amphenol

UHF Connectors and Adapters

- Frequency range: 0-300MHz
- Working voltage: 500V
- Contact plating: nickel & silver
- Cable type:
 - 223600CC/223618CC/223677CC: RG8/9/87A/214/313/225
 - 223651CC: RG58/141

New Lower Prices



Fig. 1 Fig. 2



Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8

Part No.	Product No.	Fig.	Industry No.	Description	1	10	25
223562CC	83-1AP	1	UG-646/U	In-series right angle adapter, jack-plug	\$8.15	\$7.59	\$6.16
223571CC	83-1F	2	UG-363/U	In-series bulkhead adapter, socket-socket	12.09	10.25	10.23
223589CC	83-1J	3	PL-258	In-series straight adapter, jack-jack	9.69	7.12	5.59
223837CC	83-1T	4	M-358	In-series T-adaptor, jack-plug-jack	11.25	8.65	6.51
223597CC	83-1R	5	SO-239	Non-constant impedance panel receptacle, solder cup	3.09	2.49	2.35
223699CC	83-798	5	SO-239A	Non-constant impedance panel receptacle, solder cup	5.55	4.41	2.88
223600CC	83-1SP	6	PL-259	Non-constant impedance plug, straight, solder-solder	3.65	2.81	2.35
223618CC	83-1SP-1050	7	PL-259	Non-constant impedance plug, straight, solder-solder	2.25	2.04	1.65
223677CC	83-822	7	PL-259	Non-constant impedance plug, straight, solder-solder	3.95	3.02	2.04
223651CC	83-765	8	UG-177/U	Hood for 83-1R, above	2.55	2.26	1.73

We're Listening... What Do You Want?

Email us 24/7 at NewProducts@Jameco.com with any products you'd like to see in this catalog.

Amphenol

BNC 50Ω Cable Plugs

BNC 3-Piece

- Silver-plated
- Frequency range: 0-4GHz with low reflection
- Attachment (outer/inner): crimp/crimp

188306CC: RG58/184

188349CC: RG174/188/316



Part No.	Product No.	1	10	25
188306CC	31-320-RFX	\$1.49	\$1.26	\$1.03
188349CC	31-315-RFX	1.89	1.63	1.22

Amphenol

BNC Adapters



- Frequency range: 0-4GHz with low reflection

188411CC: Straight jack-to-jack

188429CC: Jack-plug-jack

188402CC: Gasketed jack-to-jack

New Lower Prices

Part No.	Product No.	1	10	25
188411CC	31-219-RFX	\$2.99	\$2.66	\$1.99
188429CC	31-208-RFX	\$4.45 4.15	3.37	2.28
188402CC	31-220G-RFX	3.29	2.94	1.99

Amphenol

Type N Crimp Plug

- Silver-plated
- RG58/141
- Attachment (outer/inner): crimp/crimp

New Lower Prices



Part No.	Product No.	1	10	25
188445CC	82-5375-RFX	\$4.35 \$3.89	\$3.29	\$2.23

Amphenol

SMA Brass Plug

- Frequency range: 0-18GHz
- Outer cable attachment: crimp
- Inner cable attachment: solder
- Construction: captive contact
- Type: crimp plug
- For RG174/U, RG188/U, and RG316/U cables



Part No.	Product No.	1	10	25
188488CC	901-9877-RFX	\$3.05	\$2.66	\$2.14

Amphenol

SMA PCB Jacks

- Application: cellular phone, data communication, instrumentation, and video
- 50Ω impedance
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C



New Lower Prices

Part No.	Product No.	1	10	25
188509CC	901-144-8-RFX	\$3.69 \$3.25	\$2.73	\$2.35
188525CC	901-143-6-RFX	\$5.95 5.19	4.20	3.65

Type N Adapter

- Male to male
- Nickel plated machined brass construction
- Gold plated contacts



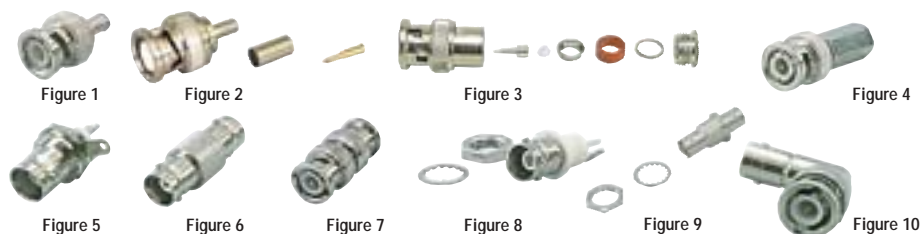
Part No.	Description	1	10	25
309622CC	N-series adapter	\$3.75	\$2.99	\$2.45

JAMECO ValuePro

EXCLUSIVE

BNC Coax Connectors

- Miniature, lightweight units designed to operate up to 11GHz and typically yield low reflection up to 4GHz



Part No.	Fig.	Description	1	10	100	500
71458CC	1	BNC male terminator (50Ω)	\$1.55	\$1.15	\$0.99	\$0.89
71790CC	1	BNC male terminator (75Ω)	1.35	1.09	.89	.73
135618CC	2	BNC male with pin and ferrule (RG6)	.89	.69	.45	.39
71482CC	2	BNC male with pin and ferrule (RG58)	1.65	1.49	1.35	1.25
71271CC	2	BNC male with pin and ferrule (RG59/62)	.81	.66	.59	.54
112109CC	2	BNC male with pin and ferrule (RG174)	1.59	1.45	1.29	1.15
119394CC	3	BNC male clamp-on (RG59/62)	1.39	1.25	1.15	.89
108994CC	4	BNC male twist-on (RG58)	1.49	1.35	1.19	.95
71781CC	4	BNC male twist-on (RG59/62)	1.09	.99	.89	.79
71589CC	5	BNC female panel mount (UG-1094A)	1.49	1.35	1.25	1.09
71909CC	6	BNC female/female coupler (UG-914)	1.29	.99	.85	.74
127343CC	7	BNC male/male coupler (UG-491B/U)	1.99	1.79	1.39	1.29
111561CC	8	BNC female isolated bulkhead	2.29	1.99	1.79	1.59
148224CC	9	BNC female bulkhead feed-thru	1.99	1.79	1.59	1.39
148232CC	9	BNC female isolated bulkhead feed-thru	2.49	2.25	1.79	1.35
127351CC	10	BNC M-F right angle (DG-306B/O)	2.49	2.19	1.85	1.59
160928CC	11	BNC female, crimp type (RG58)	1.25	1.09	.99	.89
161921CC	11	BNC female, crimp type (RG174)	1.49	1.35	1.19	1.05
174289CC	12	BNC female chassis mount	1.19	.98	.88	.79
174297CC	13	BNC female twist-on bulkhead	2.25	2.02	1.62	1.22
174254CC	14	BNC male to F connector female	1.99	1.59	1.45	1.19
207183CC	15	BNC male to RG58/59 crimp on	3.99	3.59	2.89	2.15

JAMECO ValuePro

BNC PCB Connectors

- Maintains matching impedance at 50Ω & 75Ω. Ideal for LAN cards & precision video

Part No.	Description	Length (L)	1	10	100	500
146510CC	BNC right-angle plastic insulation	1.37"	\$1.95	\$1.75	\$1.49	\$1.25
161656CC	BNC right-angle metal	.861"	2.29	1.99	1.79	1.59

Other Manufacturers — Limited Great Deals

- 146528CC: Ideal for applications where multiple insertions require a connector which can endure the stress of high torque

Part No.	Description	Length (L)	1	10	100	500
146528CC	BNC straight metal	.719"	\$2.79	\$2.55	\$2.29	\$2.05
210884CC	BNC straight/panel mount metal	.830"	2.29	2.05	1.67	1.25

JAMECO ValuePro

BNC Adapters

- Silver-plated • General purpose coax T-adapter • ThinNet/Ethernet LAN adapter

Part No.	Description	1	10	100	500
118594CC	Male to female/female T-adapter	\$2.39	\$2.15	\$1.75	\$1.25
207108CC	Quad female adapter	3.99	3.49	2.99	2.49
207095CC	Female to male/male T-adapter	6.99	6.25	5.59	4.99
72629CC	Female to female/female T-adapter	2.49	2.25	1.99	1.69
207087CC	Female to male/female T-adapter	9.95	8.95	6.45	5.39
100597CC	Male to female/female T-adapter (180°)	5.99	5.39	4.85	3.99
207116CC	Male to female/female/female T-adapter	7.19	6.45	5.79	4.95
117461CC	Male to female/female F-adapter (90°)	4.29	3.89	3.49	2.99
207124CC	Male/male to female/female T-adapter	4.49	4.05	3.25	2.45
207167CC	RCA female to BNC female	1.99	1.79	1.59	1.39
114788CC	RCA female to BNC male adapter	1.35	1.05	.99	.98
207175CC	RCA male to BNC male	1.99	1.79	1.59	1.39
114753CC	RCA male to BNC female adapter	1.59	1.45	1.29	1.09
114770CC	BNC female to "F" connector male adapter	1.79	1.59	1.39	1.19
207141CC	3.5mm mono male to BNC female	1.69	1.49	1.27	.95



JAMECO ValuePro

BNC Male Coax Cables



RG6 75Ω Cables

Part No.	Description	1	10	50	100
176794CC	3' BNC to BNC	\$3.95	\$3.55	\$3.19	\$2.89
176815CC	6' BNC to BNC	4.95	4.49	4.05	3.35

RG58/U 50Ω Cables

- For Ethernet networks, oscilloscopes

Part No.	Mfr. Ref. No.	Cross Length (ft.)	1	10	50	100
181307CC	CRG58-1RR	1	\$3.65	\$3.29	\$2.95	\$2.75
102314CC	CRG58-1	1.5	3.99	3.49	2.99	2.49
256743CC	CBB-224-24	2	9.75	9.39	8.89	7.99
11404CC	CRG58-3	3	4.29	3.89	3.49	3.15
256760CC	CBB-224-72	6	12.19	11.75	11.12	9.99
102331CC	CRG58-6	6	4.39	3.99	3.59	3.19
152311CC	RG58MF-6*	6	2.95	2.66	2.12	1.59
180822CC	CRG58-10	10	4.49	3.99	3.40	2.99
102349CC	CRG58-12	12	4.95	4.49	3.99	3.39
169818CC	CRG58-15	15	4.95	4.46	3.56	2.67
102381CC	CRG58-100	100	13.49	12.14	9.71	7.28

*152311CC has male and female coax connectors

Other Manufacturers — Limited Great Deals

102357CC	CRG58-25	25	\$6.49	\$5.84	\$4.67	\$3.44
102365CC	CRG58-50	50	9.49	8.54	6.83	5.12

RG59/U 75Ω Cables

- For CATV and video patch cords

Part No.	Mfr. Ref. No.	Cross Length (ft.)	1	10	50	100
86471CC	CRG59-1	1.5	\$2.99	\$2.69	\$2.45	\$2.19
85542CC	CRG59-6	6	3.75	3.39	2.73	2.05
102373CC	CRG59-12	12	5.49	4.95	4.45	3.99
262730CC	EBC-525	25	10.45	10.25	9.95	9.50
262748CC	EBC-550	50	17.05	16.25	15.45	14.69
262764CC	EBC-510	100	30.39	28.89	27.45	25.99

RG174/U 50Ω Cables

- For Ethernet networks, oscilloscopes

Part No.	Mfr. Ref. No.	Cross Length (ft.)	1	10	50	100
111472CC	RG174U3	3	\$3.85	\$3.49	\$3.15	\$2.85
111481CC	RG174U6	6	4.59	4.15	3.75	3.35





SMB Connectors



- For use with RG-174 coax
- 50Ω crimp type • Gold plated
- Use with crimping tool P/N 114534CC, pg 210

Part No.	Description	1	10	50
172363CC	Bulkhead crimp jack	\$3.49	\$2.95	\$2.49
172371CC	Cable crimp plug	4.29	3.89	3.49



SMB PCB Connector

- 0-4GHz electrical performance
- Gold plated brass
- Insulation: teflon
- Contact: beryllium copper



Part No.	Description	1	10	50
167311CC	Right angle PCB	\$4.45	\$3.89	\$3.25



SMA/SMB 50Ω Coax Cables

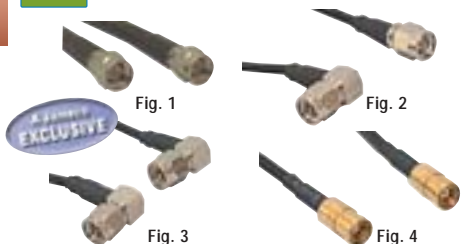


Fig. 1: SMA male to SMA male
Fig. 2: SMA male to SMA right angle male
Fig. 3: SMA right angle male to SMA right angle male
Fig. 4: SMB plug to SMB plug

Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159370CC	RG58	1	2	\$4.49	\$3.99	\$3.49
159396CC	RG58	1	6	5.49	4.89	4.19
169800CC	RG174	1	0.5	5.59	4.99	4.55
163854CC	RG174	1	1	4.49	3.95	3.39
153381CC	RG174	1	2	4.95	4.29	3.39
153390CC	RG174	1	4	5.49	4.75	4.29
159450CC	RG174	1	4	6.79	6.15	5.55
175126CC	RG174	2	0.5	4.49	3.95	3.49
175134CC	RG174	2	1	4.95	4.25	3.75
175142CC	RG174	3	0.5	5.75	5.25	4.49
175151CC	RG174	3	1	6.25	5.75	4.75
175169CC	RG174	4	0.5	4.25	3.19	2.25
175177CC	RG174	4	1	5.29	4.79	3.95



75Ω "F" Connectors/Adapters/Terminators



Part No.	Product No.	Fig.	Description	1	10	50	100
291581CC	200-016	1	Perma-seal, RG-59 coax	\$.69	\$.59	\$.55	\$.49
291531CC	200-028	1	Perma-seal, RG-6 coax .....	.69	.59	.55	.49
291709CC	200-050	2	F-jack to jack (nickel) .....	.65	.55	.475	.38
291725CC	200-051	2	F-jack to jack (gold) .....	.95	.85	.79	.75
295371CC	200-053	3	F-panel mount jack to jack (nickel) .....	.65	.55	.475	.38
295380CC	200-107	4	F-R/A jack to plug (nickel)	1.59	1.39	1.16	.95
295451CC	200-075	5	F-plug terminator .....	.55	.45	.35	.25
309657CC	200-045 NEW	6	RCA female to F male adapter	1.75	1.35	.97	.87



SMA Connectors, Adapters and Couplers



- Application: cellular phone, data communication, instrumentation, and video
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C
- 50Ω impedance
- Plating: gold and nickel

Connectors

Part No.	Description	Cable Type	Plated	1	10	50	100
157972CC	SMA 50Ω crimp type male plug connector	RG58	Gold	\$3.99	\$3.59	\$3.29	\$2.99
153365CC	SMA 50Ω crimp type male plug connector	RG174	Gold	4.39	3.95	3.55	3.19
145381CC	SMA straight female PCB mount connector, 4 legs	—	Gold	5.25	4.75	4.25	3.49
145373CC	SMA 90° female PCB mount connector, 4 legs	—	Gold	7.39	6.65	5.95	5.39
153285CC	SMA bulkhead solder female w/ washer, rear mount	RG58/174	Gold	3.49	3.15	2.85	2.59
159530CC	SMA female panel mount conn., 4 mounting holes*	RG58/174	Gold	2.95	2.65	2.35	2.10
160021CC	SMA female panel mount conn., 2 mounting holes*	RG58/174	Gold	3.99	3.59	3.25	2.95
160012CC	Panel mount feed thru connector female – female	—	Nickel	4.99	4.49	3.99	3.49

* 159530CC/160021CC: Solder cup



Couplers



Part No.	Description	Plated	1	10	50	100
153293CC	SMA straight coupler female – jack-to-jack	Gold	\$3.85	\$3.39	\$2.19	\$1.79
161277CC	SMA 3-way coupler, 1 male – 2 female	Gold	3.49	3.15	2.85	2.45
161293CC	SMA straight coupler male – male	Gold	3.65	3.29	2.95	2.75
161306CC	SMA Right angle coupler male – female	Gold	4.99	4.49	3.99	3.65



SMA to BNC Adapters



Part No.	Description	Plated	1	10	50	100
153453CC	SMA female to BNC male adapter	Nickel	\$2.49	\$2.25	\$1.99	\$1.79
159468CC	SMA female to BNC female adapter	Nickel	2.69	2.45	2.19	1.99
153592CC	SMA male to BNC male adapter	Nickel	3.99	3.59	3.19	2.89
159476CC	SMA male to BNC female adapter	Nickel	2.99	2.69	2.45	2.19

For RG-6/RG-59 75Ω Patch Cable, see page 87.

For BNC/F-Type Keystone Style Jacks, see page 82.



75Ω "F" Connectors/Adapters/Terminators



Part No.	Product No.	Fig.	Description	1	10	50	100
291581CC	200-016	1	Perma-seal, RG-59 coax	\$.69	\$.59	\$.55	\$.49
291531CC	200-028	1	Perma-seal, RG-6 coax .....	.69	.59	.55	.49
291709CC	200-050	2	F-jack to jack (nickel) .....	.65	.55	.475	.38
291725CC	200-051	2	F-jack to jack (gold) .....	.95	.85	.79	.75
295371CC	200-053	3	F-panel mount jack to jack (nickel) .....	.65	.55	.475	.38
295380CC	200-107	4	F-R/A jack to plug (nickel)	1.59	1.39	1.16	.95
295451CC	200-075	5	F-plug terminator .....	.55	.45	.35	.25
309657CC	200-045 NEW	6	RCA female to F male adapter	1.75	1.35	.97	.87



75Ω "F" Connectors



Part No.	Product No.	Fig.	Description	1	10	50	100
289828CC	200-030	1	RG-59 crimp-on nickel plated	\$.22	\$.20	\$.17	\$.14
289908CC	200-031	1	RG-59 crimp-on gold plated .....	.45	.43	.41	.39
289887CC	200-035	2	RG-6 crimp-on nickel plated .....	.22	.20	.17	.14
289916CC	200-036	2	RG-6 crimp-on gold plated .....	.45	.43	.41	.39
290001CC	200-039	3	RG-6 twist-on nickel plated .....	.79	.69	.45	.32
289975CC	200-040	3	RG-59 twist-on nickel plated .....	.79	.69	.45	.32
289924CC	200-038	4	RG-6 crimp-on weatherproof seal, brass .....	.69	.59	.49	.39
314510CC	200-024 NEW	4	RG-6 crimp-on weatherproof seal .....	.55	.46	.37	.33



Terminal Blocks and Header

- For detailed specifications, please see our website at www.Jameco.com
- 164814CC: Male header (.197") for use with 164793CC and 164806CC

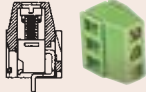


Fig. 1 (99397CC)

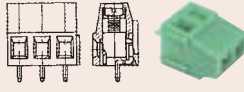


Fig. 2 (160784CC)

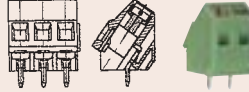


Fig. 3 (161066CC)



Fig. 4 (189675CC)



Fig. 5 (164793CC)



Fig. 6 (164806CC)



Fig. 7 (249084CC)

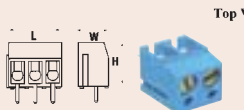


Fig. 8 (152346CC)



Fig. 9 (164814CC) use with Fig. 5 & 6

Part No.	Mfg.	Product No.	Fig.	Term.	Terminal Spacing	1	10	100	1000
99426CC	Dinkle	DT128/2	1	2	.197"/5mm	.72	.55	.44	.40
99397CC	Dinkle	DT128V3P	1	3	.197"/5mm	.99	.89	.79	.59
160784CC	Dinkle	EK500V-02P	2	2	.197"/5mm	.65	.55	.45	.39
160792CC	Dinkle	EK500V-03P	2	3	.197"/5mm	.95	.85	.75	.69
161066CC	Dinkle	EK500A-02P	3	2	.197"/5mm	.75	.65	.49	.39
161058CC	Dinkle	EK500A-03P	3	3	.197"/5mm	.95	.85	.75	.69
189675CC	OST	EDC500/2DS	4	2	.197"/5mm	.79	.71	.64	.58
189667CC	OST	EDC500/3DS	4	3	.197"/5mm	.89	.80	.72	.61
164793CC	OST	EDC130/2DS	5	2	.197"/5mm	.59	.53	.47	.42
164806CC	OST	EDC130/3DS	6	3	.197"/5mm	.84	.76	.62	.54
249084CC	OST	EDZ750/3	7	3	.200"/5.08mm	1.49	1.39	1.19	.89
152346CC	OST	EDC120/2DS	8	2	.200"/5.08mm	.65	.55	.45	.39
152354CC	OST	EDC120/3DS	8	3	.200"/5.08mm	.47	.44	.39	.30
164814CC	OST	EDSTL130/24	9	24	.197"/5mm	2.25	1.95	1.75	1.49



Double Row Terminal Blocks

- Voltage rating: 250VAC RMS max.
- Insulation: molded mono block, general purpose phenolic, black, UL rated 94V-1
- Eyelet material: brass with nickel plating
- Screw material: steel with nickel over copper flash plating
- Solder terminal material: brass with electro-tin plating



140 Series 15A

- 3750-watts per terminal max.
- 16 AWG wire max. • Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16" • Density: .375"

Part No.	Prod. No.	Pos.	Length	1	10	100
230973CC	2-140	2	1.41"	\$.99	\$.89	\$.74
230981CC	3-140	3	1.78"	1.29	1.15	.95
230990CC	4-140	4	2.16"	1.45	1.29	1.05
231001CC	5-140	5	2.53"	1.59	1.44	1.18
231010CC	6-140	6	2.91"	1.99	1.79	1.48
231028CC	7-140	7	3.28"	2.19	1.95	1.59
231036CC	8-140	8	3.66"	2.49	2.24	1.83
231044CC	9-140	9	4.03"	2.79	2.49	2.03
231052CC	10-140	10	4.41"	3.25	2.89	2.35
231061CC	12-140	12	5.16"	3.55	3.15	2.59

141 Series 20A

- 5000-watts per terminal max.
- 14 AWG wire max. • Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4" • Density: .438"

Part No.	Prod. No.	Pos.	Length	1	10	100
231351CC	2-141	2	1.63"	\$.99	\$.85	\$.72
231360CC	3-141	3	2.10"	1.69	1.45	1.09
231378CC	4-141	4	2.50"	1.79	1.59	1.25
231386CC	5-141	5	2.94"	1.85	1.64	1.33
231394CC	6-141	6	3.38"	1.99	1.75	1.45
231407CC	7-141	7	3.81"	2.49	2.25	1.85
231415CC	8-141	8	4.25"	2.79	2.35	1.94
231423CC	9-141	9	4.69"	2.99	2.59	2.19
231431CC	10-141	10	5.13"	3.19	2.79	2.29
231440CC	12-141	12	6.00"	3.59	3.29	2.69



DIN Rail-Mounted Terminal Block and DIN Rail

Foot snaps onto standard DIN and DIN 2 rails. Terminals are positively retained on rails, but can be removed without disturbing adjacent units.

- Molded thermoplastic • Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A • 14-22 AWG

Part No.	Product No.	Type	1	10	100
237083CC	41296.2	SR2.5	.....	\$ .89	\$.79
248735CC	2094.0	TS35x7.5	.....	6.79	5.45

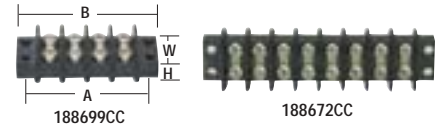


European Terminal Blocks

- Number of poles: 12
- 1.2mm raised base
- Working temperature: 230°F (110°C)
- Material: Polyamide 66 (nylon 66), UL94V2, natural
- Terminal insert: brass metal alloy, nickel plated
- Wire protector: stainless steel spring
- Screws: zinc plated, yellow chromed

Part No.	Prod. No.	Amps	AWG	1	10	100
215010CC	PA8H	20A	12-22	\$1.79	\$1.59	\$1.29
215028CC	PA10H	30A	10-22	1.89	1.69	1.39
215036CC	PA12H	35A	10-22	2.59	2.29	1.99

KULKA® 601 GP Series Double Row Terminal Blocks



- Base: general purpose phenolic; 150°C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated • Width (W): 1.12" • .437" (11 mm) centers • Height (H): .50"
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design
- UL/CSA/CE approved

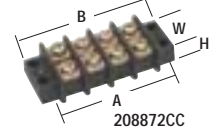
Part Number	Product Number	Poles	Dimensions A" B"	1	10	50
188699CC	601GP4	4	2.19 2.50	\$1.69	\$1.49	\$1.35
188681CC	601GP6	6	3.06 3.38	2.39	2.19	1.89
188672CC	601GP8	8	3.94 4.25	2.95	2.75	2.49
188664CC	601GP10	10	4.81 5.13	3.49	3.25	2.95
188701CC	601GP12	12	5.69 6.00	5.49	4.95	3.95

Metric Double Row Terminal Blocks

- Wire gauge range: 12-18 AWG
- Body material: black thermoplastic (UL94V-0)
- Terminals: brass tin plated
- Screws: steel nickel plated
- Insulation withstanding voltage: 2000VAC min.
- Insulation resistance: 1000MΩ or more at 500VDC

10A @ 600V

- Screw size: M3.0
- Width (W): 19.5mm
- Height (H): 11.9mm



Part Number	Product Number	Poles	Dimensions A B	1	10	50
208856CC	GGE-10-4P	4	47.5 55	\$.99	\$.89	\$.79
208864CC	GGE-10-6P	6	64.5 74	1.39	1.25	1.15
208872CC	GGE-10-8P	8	95 102.5	1.69	1.59	1.49
208899CC	GGE-10-10P	10	104.5 112	2.39	2.15	1.89
208881CC	GGE-10-12P	12	123.5 131	2.79	2.49	2.25

20A @ 600V

- Screw size: M3.5
- Width (W): 22.0mm
- Height (H): 13.2mm



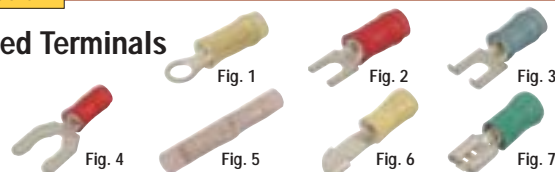
Part Number	Product Number	Poles	Dimensions A B	1	10	50
207538CC	GGE-20-4P	4	54.5 63.5	\$1.39	\$1.25	\$1.10
207546CC	GGE-20-6P	6	76.3 85.3	1.99	1.79	1.59
207554CC	GGE-20-8P	8	98.1 107.1	2.59	2.35	2.15
207562CC	GGE-20-10P	10	119.9 128.9	3.29	2.99	2.69
207571CC	GGE-20-12P	12	141.7 150.7	3.59	3.19	2.79

AMP P.I.D.G. (Pre-Insulated Diamond Grip) Nylon Insulated Terminals

Designed for complete and uniform reliability. Nylon insulated terminals feature a tin plated copper body with copper sleeve fitted over the terminal barrel to provide maximum insulation support.

- High dielectric strength
- Temperature rating: 105°C
- Funnel ramp entry
- Copper support sleeve for insulation
- Meets MIL-T-7928

New Lower Prices

**Ring Tongue Terminals**

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302594CC	323912	1	#2	26-22	Yellow	\$.21	\$.208	\$.186
302607CC	323914	1	#4	26-22	Yellow	.22	.215	.192
302615CC	323915	1	#6	26-22	Yellow	.21	.208	.186
302623CC	323916	1	#8	26-22	Yellow	.26	.251	.224
302631CC	324075	1	#10	26-22	Yellow	.29	.283	.171
302640CC	328657	1	#2	22-16	Red	.21	.208	.186
302658CC	31880	1	#4	22-16	Red	.21	.19	.15
302666CC	36152	1	#6	22-16	Red	.20	.145	.133
302674CC	31890	1	#8	22-16	Red	.20	.15	.133
302682CC	36154	1	#10	22-16	Red	.20	.15	.133
302691CC	31894	1	1/4"	22-16	Red	.26	.251	.172
302703CC	31895	1	5/16"	22-16	Red	.25	.242	.215
302711CC	31897	1	3/8"	22-16	Red	.31	.305	.176
302720CC	320619	1	#6	16-14	Blue	.20	.145	.133
302738CC	320565	1	#8	16-14	Blue	.20	.145	.133
302746CC	36160	1	#10	16-14	Blue	.20	.145	.133
302754CC	321045	1	1/4"	16-14	Blue	.20	.169	.162
302762CC	328998	1	5/16"	16-14	Blue	.25	.244	.167
302771CC	328999	1	3/8"	16-14	Blue	.29	.284	.172
302789CC	35149	1	#6	12-10	Yellow	.28	.182	.17
302797CC	35108	1	#8	12-10	Yellow	.20	.189	.171
302800CC	35109	1	#10	12-10	Yellow	.20	.189	.171
302818CC	35110	1	1/4"	12-10	Yellow	.33	.327	.218
302826CC	35111	1	5/16"	12-10	Yellow	.33	.327	.218
302834CC	35112	1	3/8"	12-10	Yellow	.33	.327	.218
302842CC	35151	1	1/2"	12-10	Yellow	.52	.286	.268

Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302851CC	328394	2	#2	22-16	Red	\$.21	\$.208	\$.185
302869CC	327717	2	#4	22-16	Red	.26	.253	.225
302877CC	34541	2	#6	22-16	Red	.20	.145	.133
302885CC	32053	2	#8	22-16	Red	.21	.208	.185
302893CC	32054	2	#10	22-16	Red	.21	.208	.175
302906CC	35559	2	#6	16-14	Blue	.21	.208	.146
302914CC	32059	2	#8	16-14	Blue	.21	.208	.185
302922CC	321233	2	#8	16-14	Blue	.24	.236	.21
302931CC	32060	2	#10	16-14	Blue	.24	.236	.146
302949CC	326859	2	#6	12-10	Yellow	.42	.416	.37
302957CC	32588	2	#8	12-10	Yellow	.31	.309	.275
302965CC	32589	2	#10	12-10	Yellow	.30	.256	.24

Flanged Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302973CC	324608	3	#2	22-16	Red	\$.28	\$.273	\$.243
302981CC	32562	3	#6	22-16	Red	.23	.227	.158
302990CC	32498	3	#8	22-16	Red	.50	.451	.438
303001CC	320861	3	#6	16-14	Blue	.24	.23	.159
303010CC	320862	3	#8	16-14	Blue	.24	.23	.204
303028CC	320863	3	#10	16-14	Blue	.23	.224	.199
303036CC	325150	3	#6	12-10	Yellow	.59	.493	.461
303044CC	32510	3	#8	12-10	Yellow	.25	.223	.19
303052CC	324015	3	#10	12-10	Yellow	.39	.288	.269

Short Spring Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
303061CC	82927	4	#4	22-16	Red	\$.22	\$.209	\$.186
303079CC	52929	4	#6	22-16	Red	.25	.238	.164
303087CC	52930	4	#8	22-16	Red	.25	.238	.212
303095CC	52931	4	#10	22-16	Red	.35	.345	.258
303108CC	52935	4	#6	16-14	Blue	.25	.238	.164
303116CC	52936	4	#8	16-14	Blue	.28	.27	.24

Short Spring Spade Tongue Terminals (Continued)

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
303124CC	52937	4	#10	16-14	Blue	\$.28	\$.27	\$.24
303132CC	52941	4	#6	12-10	Yellow	.32	.31	.248
303141CC	52942	4	#8	12-10	Yellow	.36	.35	.282
303159CC	52943	4	#10	12-10	Yellow	.36	.351	.282

Butt & Knife Disconnect Splices

Part No.	Product No.	Fig.	Description	Wire (AWG)	Color	1	10	100
303167CC	323994	5	Butt	26-22	Yellow	\$.39	\$.339	\$.317
303175CC	320559	5	Butt	22-16	Red	.50	.496	.356
303183CC	320562	5	Butt	16-14	Blue	.57	.496	.295
303191CC	320570	5	Butt	12-10	Yellow	.85	.82	.499
303204CC	32446	6	Knife disconn.	22-16	Red	.42	.411	.27
303212CC	32448	6	Knife disconn.	16-14	Blue	.42	.411	.27
303221CC	35762	6	Knife disconn.	12-10	Yellow	1.45	1.24	1.11

Fast-On Receptacles

Part No.	Product No.	Fig.	Size (in.)	Wire (AWG)	Color	1	10	100
303239CC	60894-1	7	.110 x .032	22-18	Natural	\$.24	\$.232	\$.168
303247CC	640923-1	7	.110 x .020	22-18	Red	.22	.214	.163
303255CC	640917-1	7	.187 x .020	22-18	Red	.20	.162	.13
303263CC	640909-1	7	.205 x .020	22-18	Red	.22	.214	.163
303271CC	640911-1	7	.205 x .032	22-18	Red	.22	.214	.163
303280CC	640903-1	7	.250 x .032	22-18	Red	.20	.16	.13
303298CC	640929-1	7	.110 x .020	16-14	Blue	.22	.214	.163
303301CC	640919-1	7	.187 x .020	16-14	Blue	.22	.214	.163
303319CC	640915-1	7	.205 x .032	16-14	Blue	.22	.214	.163
303327CC	640905-1	7	.250 x 0.32	16-14	Blue	.20	.162	.16
303335CC	42844-1	7	.250 x .032	14-12	Green	.31	.30	.215
303343CC	640907-1	7	.250 x .032	12-10	Yellow	.25	.237	.166

Vinyl Insulated Solderless Terminals

- Insulation thickness: .030"
- Funnel ramp entry
- Temperature to 105°C
- Use with crimping tool P/N 72995CC, pg 211
- Sold in increments of 10, 100 or 1000

**Ring & Spade Solderless Terminals**

Part No.	Description	Stud Size	Wire (AWG)	Color	10	100	1000
103683CC	Ring solderless	#6	22-16	Red	\$.11	\$.07	\$.05
103587CC	Spade solderless	#6	22-16	Red	.13	.06	.05
103595CC	Spade solderless	#8	16-14	Blue	.12	.068	.06

Disconnect Solderless Terminals

Part No.	Description	Blade Size	Wire (AWG)	Color	10	100	1000
106921CC	Female	.187"	22-16	Red	\$.12	\$.07	\$.05
103667CC	Female	.25"	22-16	Red	.12	.07	.05
109111CC	Female w/ hood	.25"	22-16	Red	.17	.11	.055

171-Pc. Solderless Terminal Kit

- Clear, hinged plastic box
- Use crimping tool P/N 72995CC, pg 211

170 Terminals and Connectors!



Part No.	Description	1	10	25
10989CC	Terminal kit (170 terminals and connectors)	\$8.95	\$7.95	\$7.25

Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	22-16	1/4"	10	Ring term.	16-14	#10
10	Male spade	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. spade	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. spade	16-14	1/4"	10	Spade term.	16-22	#6
10	Ring term.	22-16	#6	10	Spade term.	16-22	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	16-14	#10	10	Butt conn.	16-22	-
15	Ring term.	16-14	#6	10	Butt conn.	16-14	-
10	Ring term.	16-14	#8	5	Butt conn.	12-10	-

3M Spring Connectors



This simplifies selection of the right connector for a wide range of wiring jobs. There's also less inventory to manage, and a better chance you'll have the connector you need to do every job.

285683CC: 2#22 to 2#12AWG, orange with blue skirt; replaces the orange, blue, and gray wire nut style connectors as well as 70% of the yellow wire nut and wing style connectors

285691CC: 2#18 to 2#8 to 5#12 AWG, red with yellow skirt, replaces both red and yellow wing style connectors

285704CC: 4#14 to 2#6 to 3#8 AWG, blue with gray skirt, covers both the large blue and gray connectors

• Prepackaged: order in increments of 10 or 100

Part No.	Product No.	10	100	500
285683CC	3M O/B+	.084	.075	.071
285691CC	3M R/Y+	.132	.106	.10
285704CC	3M B/G+	.37	.32	.253

Wire Connectors



- Material: UL approved nylon 66, 94V2
- Quick and secure method to splice control wires
- Strip wire before application • Twist on type
- Material: PVC with metal spring, except P/N 182449CC nylon 66, 94-2 and P/N 140716CC PE - metal inside

182449CC: UL/CSA approved

• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	Color	10	100	1000
182449CC	Crimp 16-14 AWG*	Nat.	\$.06	\$.055	\$.049
182511CC	Wire-nut 16 AWG	Blue	\$.045	\$.04	\$.035
140716CC	Wire IDC 22-18 AWG	Red	\$.15	\$.14	\$.10

* Requires crimping tool (P/N 72995CC, pg 211)

Telecom Splice Connectors

- Provides clean, solid, and rapid connection of wires to keep communication lines free of noise
- Available to handle a wide range of conductor sizes

169754CC: Y-type

• Prepackaged: order in increments of 10, 100 or 1000

Part No.	Color	Wire Gauge	No. of Conductors	10	100	1000
169746CC	Yellow	22-26	2	\$.11	\$.10	\$.08
169754CC	Red	19-263Y	3Y	\$.15	\$.14	\$.12

Table Top Power Supplies and Wall Adapters, see pages 156-164.



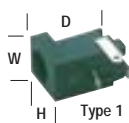
Power/Audio/RCA Plugs and Jacks, see pages 88 & 89.

Male & Female Power Jacks

- Use with mating power plugs, below
- Dimensions do not include barrel

Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F

Terminals	Code
Solder eyelet	A
PC board	B



Type 1



Type 2



Type 3



Type 4



Type 5



Type 6



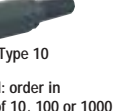
Type 7



Type 8



Type 9



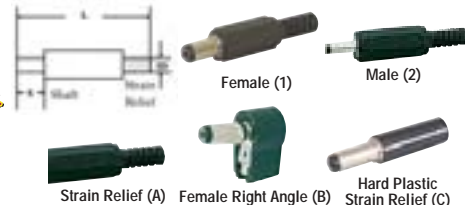
Type 10

* Prepackaged: order in increments of 10, 100 or 1000

Part Number	Mfr. Cross Ref. No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (below)	Pricing			
						1	10	100	1000
1.3 mm Male Jacks									
101194CC	PP024	6.0 x 6.0 x 9.0	8/D	1/B	1.3 mm female	\$.63	\$.49	\$.44	\$.39
265421CC	420ECS	7.3 x 5.0 x 11.5	1/D	1/B	1.3 mm female	.69	.55	.49	.45
2.1 mm Male Jacks									
101178CC	PP014	10.9 x 9.0 x 14.5	1/D	1/A	2.1 mm female	\$.49	\$.44	\$.39	\$.35
137672CC	PP013	10.9 x 9.0 x 14.5	5/D	3/A	2.1 mm female	.49	.44	.35	.26
151589CC	DPJ-02IA	13.0 x 12.6 Dia.	7/C	1/A	2.1 mm female	1.09	.93	.70	.65
151554CC	DPJ-026	15.1 x 8.0 Dia.	6/E	1/A	2.1 mm female	1.49	1.25	1.05	.89
159610CC	PJ1014A	35.8 x 12.6 Dia.	10/F	3/A	2.1 mm female	1.49	1.25	1.09	.89
2.5 mm Male Jacks									
109428CC	PJ025PCB	8.0 x 12.0 x 9.6	4/D	1/B	2.5 mm female	*	\$.19	\$.15	\$.11
207714CC	HEC0470	11.0 x 9.0 x 14.5	1/D	1/B	2.5 mm female	.45	.35	.29	.25
101186CC	PP014A	11.0 x 9.0 x 14.5	1/D	1/A	2.5 mm female	.59	.53	.48	.43
151562CC	DPJ-026A	15.1 x 8.0 Dia.	6/E	1/A	2.5 mm female	1.49	1.24	1.13	.99
159505CC	PJ1015A	35.8 x 12.6 Dia.	10/F	3/A	2.5 mm female	1.39	1.25	1.13	1.01
202358CC	HD2388	17.0 x 12.0 Dia.	7/C	3/A	2.5 mm female	1.09	.98	.88	.79
3.5 mm Female Jacks									
101143CC	PJ0352	10.0 x 10.0 x 18.5	2/E	2/A	3.5 mm male	\$.35	\$.31	\$.25	\$.18
109495CC	PJ035PM	10.5 x 9.0 x 8.8	3/C	2/A	3.5 mm male	.45	.40	.36	.32
165729CC	PJ0354	8.9 x 5.7 Dia.	9/C	3/A	3.5 mm male	.69	.59	.49	.39

Male & Female Power Plugs

- Use with mating power jacks found in table, above
- Solder eyelets 1mm diameter
- Threaded screw-on housing (strain relief)
- Use with AC/DC wall adapters, pgs 161-164
- Shield crimp tabs
- Use 24 AWG 2 conductor wire, P/N 100280CC, to make custom length power cables, pg 78



Part Number	Mfr. Cross Ref. No.	Description Plug ID x OD (mm)	Dimensions (mm) S (shaft) x L x ID (strain relief)	Type	Pricing			
					1	10	100	1000
Female Plugs								
71191CC	PP137	1.3 x 3.5	9.6 x 43.9 x 4.8 (black)	1/A	\$.79	\$.71	\$.65	\$.59
191484CC	PP049W	2.1 x 5.5	9.6 x 43.9 x 4.5 (white)	1/A	.69	.62	.56	.50
28759CC	PP049	2.1 x 5.5 (P205)	8.5 x 41.4 x 4.6 (black)	1/A	.59	.49	.39	.29
147328CC	PP049L	2.1 x 5.5 (P205L)	14.0 x 46.4 x 4.6 (black)	1/A	.69	.62	.56	.50
138587CC	PJ021R	2.1 x 5.5 rt. angle	12.0 x 22.5 x 3.9 (black)	1/B	.79	.63	.55	.49
190537CC	PP109S	2.5 x 5.5 (P206S)	9.0 x 43.5 x 4.8 (black)	1/A	.39	.32	.29	.19
28767CC	PP109	2.5 x 5.5 (P206)	10.1 x 45.4 x 4.3 (black)	1/A	.59	.49	.39	.33
191492CC	PP109W	2.5 x 5.5	10.1 x 45.4 x 4.5 (white)	1/A	.39	.35	.32	.26
147336CC	PP109L	2.5 x 5.5 (P206L)	13.6 x 47.5 x 4.8 (black)	1/A	.75	.68	.61	.55
168241CC	PP109N	2.5 x 5.5	13.7 x 36.5 x 3.9 (black)	1/C	.59	.49	.43	.35
Male Plugs								
101135CC	PJ1025	2.5 (P201)	11.1 x 49.0 x 4.3 (black)	2/A	\$.59	\$.53	\$.39	\$.29
147459CC	PJ1025L	2.5 (P201L)	10.5 x 48.0 x 5.0 (black)	2/A	.39	.27	.26	.22
101151CC	PJ1035	3.5 (P202)	13.8 x 51.8 x 4.2 (black)	2/A	\$.55	.49	.38	.35
147344CC	PJ1035L	3.5 (P202L)	14.1 x 51.0 x 5.2 (black)	2/A	\$.55	.49	.38	.35

Automobile Power Plug & Cord Assembly

- Screw assembly with strain relief
- Accepts .25" x 1.25" fuse
- Plugs directly into cigarette lighter
- 124759CC: 3' cord pigtail end

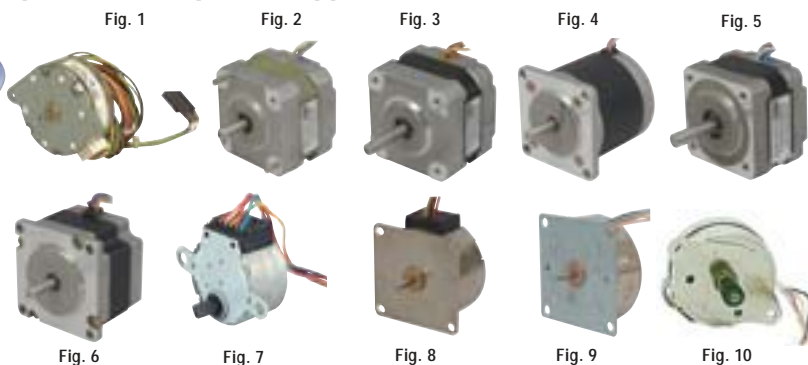
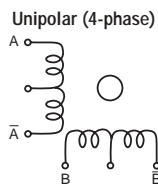
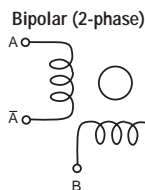
Part No.	Description	1	10	100
115001CC	W/ 5A/250VAC fuse	\$1.95	\$1.65	\$1.19
124759CC	W/ 3A/250VAC fuse & 3' cord	1.89	1.72	1.69



Bipolar and Unipolar Stepper Motors

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 200 VDC models below.

- Bearing type: ball
- Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- Ambient temperature: -10°C to +55°C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998CC, pg 237, for shaft coupler



Part No.	Product No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Weight (lbs.)	Pricing		
																		1	10	50
237526CC	42BYGH001	3	Bipolar	2	1.8	2.1	950	2.3	200	1700	1.22	0.10	0.20	0.95	1.67	1.34	0.50	\$16.49	\$14.85	\$13.35
237497CC	39BYG101-01	2	Bipolar	2.7	1.8	6.8	400	6.5	150	650	1.22	0.10	0.20	0.75	1.54	0.79	0.26	15.95	14.35	12.95
237420CC	35BYG002	3	Bipolar	3.2	1.8	4.8	800	3	15	50	1.02	0.10	0.20	0.83	1.38	1.02	0.30	15.95	14.35	12.95
237489CC	39BYG001	2	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	15.95	14.35	12.95
237737CC	42BY48H08	8	Bipolar	5	7.5	9.1	550	—	130	630	1.95	0.14	0.12	0.39	1.65	0.87	0.28	7.89	7.09	6.39
237577CC	57BYG061	4	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	29.95	26.95	24.25
237518CC	42BYG017	2	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	16.49	14.85	13.35
237454CC	39BYG201	2	Bipolar	9.6	1.8	20	480	—	200	1000	1.22	0.10	0.20	0.20	1.54	0.98	0.44	16.95	15.25	13.75
237411CC	35BYG005	2	Bipolar	12	1.8	20	500	—	1.5	10	1.02	0.10	0.20	0.83	1.38	1.10	0.37	15.95	14.35	12.95
155459CC	42BYG023*	2	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	17.95	16.29	14.59
237471CC	39BYG401A	2	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	19.49	17.55	15.79
237817CC	25BY2414	7	Bipolar	12	15	27	440	15.5	48	140	1.26	0.11	0.08	0.37	0.98	0.59	0.08	7.19	6.45	5.79
237462CC	39BYG401	2	Bipolar	14	1.8	31	400	32	200	2300	1.22	0.10	0.20	0.95	1.54	1.34	0.44	19.49	17.55	15.79
237446CC	35BYG008	2	Bipolar	24	1.8	1.3	1600	1	1	9	1.02	0.10	0.20	0.83	1.38	1.14	0.33	16.95	15.25	13.75
237569CC	57BYG009	4	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	32.29	29.09	26.15
237614CC	57BYGH801	6	Unipolar	3.3	1.8	2.2	1500	22	—	5608	1.86	0.20	0.25	0.83	2.24	2.01	1.32	35.19	31.69	28.49
237534CC	42BYGH102	5	Unipolar	3.6	1.8	3	1200	3.2	220	3000	1.22	0.10	0.20	0.95	1.67	1.57	0.50	17.95	16.15	14.55
237551CC	57BYG008	4	Unipolar	4	1.8	3.1	1300	4.4	—	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	29.95	26.95	24.25
237593CC	85BYGH450	6	Unipolar	4.4	1.8	2.2	2000	—	—	21414	2.76	0.26	0.51	1.38	3.35	2.95	4.90	161.95	145.75	131.19
237622CC	57BYGH802	6	Unipolar	4.8	1.8	3.2	1500	2.9	—	8157	1.86	0.20	0.25	0.83	2.24	2.20	1.54	37.69	33.95	30.55
237606CC	57BYGH001	6	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	32.49	29.25	26.35
237825CC	25BY4801	7	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	6.95	6.25	5.65
237673CC	35BY48B06	1	Unipolar	5	7.5	10	500	65	65	250	1.65	0.13	0.08	0.45	1.38	0.59	0.15	6.49	5.85	5.25
237770CC	20BY20H01	7	Unipolar	5	18	10	500	—	18	75	0.98	0.09	0.06	0.34	0.79	0.71	0.05	5.59	5.09	4.55
223870CC	57BYG070	4	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	49.95	42.46	31.84
237631CC	57BYGH803	6	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	64.59	58.15	52.35
172558CC	42BYG014	2	Unipolar	8.5	1.8	19	450	13	150	1300	1.22	0.50	0.20	0.87	1.67	1.34	0.50	12.95	11.66	10.49
237711CC	42BY48H06	8	Unipolar	9	7.5	20	450	18.5	130	800	1.95	0.14	0.12	0.39	1.65	0.87	0.30	7.89	7.09	6.39
237788CC	25BY2402	7	Unipolar	9	15	50	180	14	48	100	1.26	0.13	0.08	0.35	0.98	0.59	0.08	6.95	6.25	5.65
237649CC	25BY2403	7	Unipolar	9	15	20	450	4.5	48	130	1.38	0.14	0.08	0.33	0.98	0.56	0.07	4.69	4.25	3.79
172646CC	42BYG205	4	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	17.95	15.25	11.45
224021CC	42BYG016	2	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	16.95	15.25	13.75
155432CC	42BYG228	2	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	17.95	16.29	14.59
237542CC	57BYG007	4	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	25.95	23.35	20.99
238537CC	42BYGH404	5	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	19.95	17.95	16.15
162026CC	57BYG084	4	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	26.95	24.29	21.85
237972CC	28BYJ01A1	7	Unipolar	12	5.625	300	40	—	300	552	1.38	0.17	0.20	0.33	1.10	0.75	0.09	4.19	3.79	3.55
237981CC	28BYJ01C	7	Unipolar	12	5.625	300	40	—	350	552	1.38	0.14	0.12	0.20	1.10	0.78	0.10	4.19	3.79	3.55
237753CC	28BYJ012A	7	Unipolar	12	5.625	200	60	—	350	736	1.38	0.16	0.12	0.24	1.10	0.75	0.08	3.59	3.25	3.10
237745CC	28BYJ01A	7	Unipolar	12	5.625	200	60	—	350	736	1.38	0.16	0.12	0.24	1.10	0.75	0.10	3.59	3.25	3.10
237833CC	25BY4803	7	Unipolar	12	7.5	50	240	16	45	110	1.34	0.09	0.08	0.27	0.98	0.59	0.07	6.95	6.25	5.65
237681CC	35BY48B069	1	Unipolar	12	7.5	50	270	28	65	300	1.65	0.13	0.08	0.26	1.42	0.85	0.15	6.49	5.85	5.25
237892CC	42BY48B03	8	Unipolar	12	7.5	57	210	18	105	300	2.28	0.08	0.12	0.30	1.65	0.58	0.21	10.45	9.39	8.45
238158CC	35BY48BH10	1	Unipolar	12	7.5	42	286	25	90	400	1.65	0.13	0.08	0.26	1.38	0.85	0.19	6.89	6.19	5.59
237930CC	42BY48B14	8	Unipolar	12	7.5	50	240	—	145	450	1.95	0.14	0.12	0.39	1.65	0.59	0.22	8.95	8.09	7.25
213321CC	35BY48-27	1	Unipolar	12	7.5	15	800	68	90	460	1.96	0.13	0.08	0.25	1.38	0.83	0.20	8.95	7.61	5.71
238131CC	35BY48BH05	1	Unipolar	12	7.5	15	800	10	90	460	1.65	0.13	0.08	0.26	1.38	0.85	0.19	6.89	6.19	5.59
237884CC	42BY48B02	8	Unipolar	12	7.5	40	300	28	130	500	N/A	N/A	0.12	0.30	1.65	0.57	0.21	10.45	9.39	8.45
238043CC	30BYJ05-PH	7	Unipolar	12	7.5	300	40	—	350	552	1.42	0.17	0.20	0.30	1.18	0.69	0.10	4.79	4.29	3.89
237761CC	30BYJ011	7	Unipolar	12	7.5	300	40	—	350	644	1.38	0.18	0.12	0.20	1.18	0.69	0.10	4.35	3.89	3.51

* 155459CC: Dual shaft

Bipolar and Unipolar Stepper Motors (Continued)

Part No.	Product No.	Fig. (see pg. 103)	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Weight (lbs.)	Pricing		
																		1	10	50
238086CC	35BYJ03	7	Unipolar	12	7.5	400	40	—	450	828	1.65	0.16	0.20	0.33	1.42	0.67	0.12	\$4.95	\$4.45	\$3.99
238035CC	30BYJ03C	7	Unipolar	12	7.5	160	75	—	350	920	1.54	0.17	0.12	0.44	1.42	0.69	0.11	4.79	4.29	3.89
238060CC	35BYJ02	7	Unipolar	12	7.5	200	60	—	400	1104	1.65	0.16	0.20	0.33	1.42	0.67	0.13	4.95	4.45	3.99
238078CC	35BYJ02A	7	Unipolar	12	7.5	200	60	—	400	1104	1.85	0.16	0.20	0.33	1.38	0.69	0.13	4.95	4.45	3.99
238051CC	35BYJ01	7	Unipolar	12	7.5	130	92	—	350	1472	1.65	0.16	0.20	0.33	1.42	0.69	0.12	4.95	4.45	3.99
173180CC	30BYJ02AH*	7	Unipolar	12	7.5	200	60	49.5	400	736	1.42	0.14	0.19	0.36	1.18	0.68	0.10	11.49	9.77	7.32
237657CC	25BY2406	7	Unipolar	12	15	30	400	7.5	48	120	1.26	0.13	0.08	0.35	0.98	0.59	0.07	4.69	4.25	3.79
237956CC	42BY48H05	8	Unipolar	14	7.5	70	200	—	130	450	1.93	0.14	0.12	0.39	1.65	0.87	0.27	8.95	8.09	7.25
237438CC	35BYG007	5	Unipolar	15	1.8	28	400	—	12	70	1.02	0.10	0.20	0.83	1.38	1.10	0.37	16.95	15.25	13.75
237702CC	35BY48BH02	1	Unipolar	16.2	7.5	60	270	50	90	450	1.65	0.13	0.08	0.33	1.38	0.59	0.20	6.49	5.85	5.25
237665CC	25BY2407	7	Unipolar	16.2	15	85	190	19	48	100	1.26	0.16	0.08	0.49	0.98	0.56	0.10	4.69	4.25	3.79
237796CC	25BY2408	7	Unipolar	16.2	15	60	270	16	48	120	1.26	0.17	0.08	0.55	0.98	0.56	0.10	6.95	6.25	5.65
237841CC	25BY4806	7	Unipolar	20	7.5	50	400	16	45	155	1.26	0.13	0.08	0.49	0.98	0.56	0.10	6.95	6.25	5.65
237850CC	25BY4807	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	0.10	6.95	6.25	5.65
237868CC	25BY4808	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	0.10	6.95	6.25	5.65
237876CC	25BY4809	7	Unipolar	20	7.5	50	400	16	45	155	1.42	0.35	0.08	0.22	0.98	0.87	0.10	6.95	6.25	5.65
210391CC	STP42N196S	9	Unipolar	24	3.75	110	436	60	60	600	1.95	0.13	0.118	0.42	1.65	0.54	0.18	3.95	3.36	2.52
238115CC	35BY48B08	1	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	6.89	6.19	5.59
238107CC	35BY48B07	1	Unipolar	24	7.5	11	240	70	65	330	1.65	0.13	0.08	0.26	1.38	0.59	0.15	6.89	6.19	5.59
238140CC	35BY48BH07	1	Unipolar	24	7.5	110	240	70	90	350	1.65	0.13	0.08	0.26	1.38	0.85	0.20	6.89	6.19	5.59
237690CC	35BY48BH01	1	Unipolar	24	7.5	165	145	85	90	400	1.65	0.13	0.08	0.33	1.38	0.59	0.19	6.49	5.85	5.25
237921CC	42BY48B08	8	Unipolar	24	7.5	75	320	33	145	600	1.95	0.14	0.12	0.39	1.65	0.59	0.20	8.95	8.09	7.25
210382CC	5620	10	Unipolar	24	7.5	100	436	60	40	380	1.67	0.13	0.078	0.40	1.38	0.58	0.18	1.99	1.81	1.65
237905CC	42BY48B04	8	Unipolar	24	7.5	110	220	53	145	630	1.95	0.14	0.12	0.45	1.65	0.59	0.20	8.95	8.09	7.25
237913CC	42BY48B04M	8	Unipolar	24	7.5	120	200	57	145	630	1.95	0.09	0.12	0.45	1.65	0.59	0.22	8.95	8.09	7.25
237948CC	42BY48H02	8	Unipolar	24	7.5	48	500	—	130	630	1.95	0.14	0.12	0.39	1.65	0.87	0.30	8.95	8.09	7.25
237729CC	42BY48H07	8	Unipolar	24	7.5	85	280	78	130	780	1.95	0.14	0.12	0.39	1.65	0.87	0.27	7.89	7.09	6.39
237809CC	25BY2409	7	Unipolar	24	15	118	200	22	48	100	1.37	0.13	0.08	0.37	0.98	0.59	0.10	7.19	6.45	5.79
238123CC	35BY48BH03	1	Unipolar	28.8	7.5	115	278	85	90	450	1.65	0.13	0.08	0.26	1.38	0.85	0.19	6.89	6.19	5.59
237585CC	110BYG450C	4	Unipolar	80-200	0.9/1.8	0.18	6000	2	3060	45,900	5.0	0.33	0.63	2.13	4.33	5.10	8.40	179.95	161.95	145.75

* 173180CC: Gear ratio 85:25:1

Other Manufacturers — Limited Great Deals



Part No.	Mfr. Cross Ref. No.	Drive System	Volt. (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Height (in.)	Pricing		
																1	10	50
117954CC	LB82773-M1	Bipolar	5	7.5	6	800	7	100	1080	2.60	1.95	0.250	0.75	2.25	1.00	\$4.29	\$3.86	\$2.89
163395CC	5017-935 ¹	Bipolar	8.4	0.9	30	280	25	36	791	1.73	0.15	0.155	0.29	1.64	1.20	4.95	4.21	3.16
163408CC	4017-806 ¹	Bipolar	9.2	1.8	38	240	52	36	664	1.73	0.15	0.155	0.23	1.66	1.25	2.95	2.65	2.35
105881CC	SM4203 ²	Bipolar	12	3.6	25	480	31	80	600	1.73	0.11	0.197	0.43	1.66	1.31	6.49	5.85	5.29
171601CC	PF35T48L4 ³	Unipolar	7	7.5	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	4.99	4.24	3.18
238019CC	30BYJ01C1	Unipolar	12	7.5	300	40	—	350	644	1.54	0.17	0.12	0.20	1.18	0.68	4.79	4.29	3.89

¹ 163395CC/163408CC: Dual shaft ² 105881CC: P/N 25216CC (IC, MC3479P, pg 30) bi-phase stepper motor driver can be used to operate: Use P/N 161998CC for shaft coupler, see pg 237

³ 171601CC: Dual shaft w/ 10 tooth gear

30-Day Money-Back Guarantee

If you're not completely satisfied with your order, we'll take it back!

Details on page 246.

Steps Aside, You Can Save!

Designers today are forced to face many obstacles that didn't exist 10 - 20 years ago. Power-saving stand-by and sleep modes were necessary for flight equipment, but not nearly as common in traditional embedded systems.

Motors are now more efficient and produce significantly more torque/power per Watt consumed. But we still must balance power supply limitations with torque and precision requirements.

While not always considered as elegant as direct drive, gear-reduced power trains are

often quite advantageous. Positioning accuracy can be improved to finer increments by simply changing the gear ratio. Torque will also improve based on the gear ratio. And since a smaller, less powerful motor can be used, power requirements are also reduced. You'll use less expensive motors and power supplies, plus you'll reduce heat dissipation.



Practical Practices
Money Saving Tips for the Engineer

Scott Edwards Electronics, Inc.

Serial Servo Controller Module

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115553CC, pg 83) or modular adapter from DB9 to RJ11 (P/N 114737CC, pg 83)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty



Part No.	Description	1	10
151001CC	Mini SSC II	\$43.95	\$41.79

Motor and Gear Case

Combination motor and gear train in plastic case.

- Operates on 0.5-3.0V @ 0.5V
- Runs at 20mA • 6 RPM
- Strong torque @ 3V: 41 g-cm
- Shaft diameter: 2mm
- Size: 3.0"L x 2.0"W x 1.5"D



Part No.	Description	1	10
215271CC	Motor and gear case	\$14.25	\$12.79

Solar Motor

- Operates on 0.5-3.0V @ 200mA start-up
- Runs at 80mA no load
- Low stall torque: 25-48 g-cm
- High RPM: 2500-5000 @ maximum efficiency
- Shaft diameter: 2mm
- Motor size: 1.0"Dia. x 1.5"L



Part No.	Description	1	10
215263CC	Solar motor	\$2.89	\$2.69

See our extensive motor selection on pages 110-111 & 113-116.

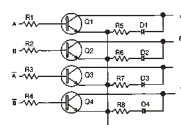
rmv electronics

12-Bit Stepper Motor Control and Analog/Digital DAC Board

- High speed serial port interface up to 230.4kbps
- 4 channels with precision signal conditioning – 100mV, 2.5V and 5.0V inputs
- 24 digital I/O (TTL) and 11 analog channels with 12-bit resolution
- PWM, period measurement and stepper motor functions
- Free 32-bit DLL, OXC and Labview driver for rapid system development
- Size: 6.0"L x 2.6"W • Weight: 0.7 lbs.



Driver Schematic



Requires: External driver circuit parts kit (P/N 208573CC, below) – consisting of 5 ea. 1kΩ 1/4W resistors, 5 ea. 330Ω 1/4W resistors, 5 ea. MJE 3055T transistors, and 5 ea. 1N4003 diodes

Part No.	Description	1	10
109911CC	Stepper motor control board	\$104.75	\$94.29
208573CC	Unipolar circuit parts kit	3.49	3.15

32-Bit Stepper Motor Controller

One Axis

- Controls one bipolar stepper motor with 32-bit absolute position
- Interface to PC through RS232 or RS485 @ 2400-19,200bps
- Full, half or wave step modes
- Multiple boards may share same serial line (RS485 only)
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V
- 4-bit digital input for home limits
- Addressable up to 255 boards
- Size: 4.4"L x 2.3"H • Weight: 0.7 lbs.



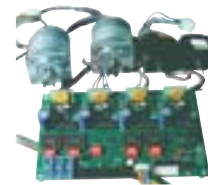
Includes: Manual and sample code software

Part No.	Description	1	10
153621CC	32-bit controller	\$158.95	\$150.99

rmv electronics

Multi-Stepper Motor Control Board

- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- High-speed serial communication interface 9.6kbps-230.4kbps
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- Linear acceleration/deceleration capability up to 8500 step/sec.
- Full step (monophasic and biphasic), half step and external driver modes
- Current-mode coil driver up to 2A/45V
- Automatic power down prevents motor overheating
- External driver control outputs: step, direction and power control
- 26 digital I/O and two SPI interfaces for control of external devices
- 32 bits DDL interface for Windows® 9X, NT & Linux
- Internal FIFO RAM (128 bytes) allows customized motion profiles
- Size: 7.7"L x 5.0"W x 1.0"H • Weight: 0.7 lbs.



Shown w/ motors – not included

Part No.	Description	1	10
168727CC	Stepper motor control board	\$399.95	\$379.95

Electric Motors and Control Techniques

TAB Publishing Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications. (294 pages, 1994)



Size: 7.3" x 9.2" • Weight: 1.1 lbs.

Part No.	Description	Price
137162CC	Electric Motors & Control	\$24.95

KAE

Industrial Motion Controllers for Brush, Brushless and Stepper Motors

All JR Kerr Automation Engineering controllers include integrated power amplifiers. Up to 32 controllers can be daisy-chained from a single full-duplex RS485 port. For RS-232 to RS-485 adapter see P/N 184971CC (below).



184989CC



185009CC



184971CC



184997CC



184962CC



184954CC

184989CC: PIC-SERVO motor control board

- For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

185009CC: PIC-SERVO 3PH motor control board for brush or brushless motors

- For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Same features as 184989CC above but with support for linear & circular interpolation using the PIC-SERVO CMC chipset

184971CC: Z232-485 serial port adapter

- Lets you operate the controllers above from any standard RS-232 port

Part No.	Description	Size (L" x W" x H")	1	10
184989CC	PIC-SERVO	3.1 x 2.1 x 0.9	\$179.95	\$161.95
185009CC	PIC-SERVO 3PH	3.1 x 3.1 x 1.0	239.95	215.95
184971CC	Z232-485	3.1 x 2.1 x 0.5	59.95	53.95

184997CC: PIC-STEP motor control board

- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Limit switch inputs, general purpose outputs, step/dir outputs for use with external drivers

184962CC: PIC-I/O multifunction I/O control board

- 12 I/O bits software configurable as inputs or outputs
- One counter input
- Three 8-bit analog inputs, two PWM outputs with high current drivers

184954CC: Simple sequencer stand-alone controller

- Programmable master controller for building stand-alone systems with the controllers above
- Plugs into a socket on the Z232-485 board (P/N 184971CC, left)

Part No.	Description	Size (L" x W" x H")	1	10
184997CC	PIC-STEP	3.1 x 2.1 x 0.9	\$159.95	\$143.95
184962CC	PIC-I/O	3.1 x 2.1 x 0.6	\$99.95 89.95	85.45
184954CC	Simple sequencer	2.1 x 1.0 x 0.4	59.95	53.95

1.5-112VDC Motors

Jameco has a broad selection of DC Motors available for immediate delivery! In fact, we're the only place in the country where you can buy them off-the-shelf. And because of our broad selection, major custom-design motor manufacturers send their customers to us! Be sure to check out all the products below.

Typical applications:

- RC cars and airplanes
- Arcade games
- Vending machines
- Office automation products
- Motorized toys
- Vacuum cleaners
- Hair removers
- Blow dryers
- Tire pumps
- Paper shredders
- Cordless power tools

NICHIBO

Part Number	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft "Dia."	Shaft "Length"	Size (D" x L")	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
231917CC	FE-260-2670	5	1.5	1.5-3	0.66	3700	10.5	42.9	Solder	0.078	0.314	0.937 x 1.063	\$.99	\$.89	\$.85
231861CC	UE-260-2850	6	1.5	1.5-3	1.15	4260	13.4	34.9	Solder	0.078	0.314	0.944 x 1.063	\$4.25 1.09	.99	.89
231853CC	UE-260-2838	6	1.5	1.5-2.4	1.57	5600	15.5	39.0	Solder	0.078	0.314	0.944 x 1.063	1.25	1.09	.99
232135CC	FF-050S-13130	3	2	2-4	0.11	3000	3	42.0	Solder	0.059	0.433	0.610 x 1.059	2.49	2.25	1.99
231909CC	FE-260-18130	5	3	1.5-4.5	0.36	4780	10.3	49.6	Solder	0.078	0.314	0.937 x 1.063	.99	.89	.85
231888CC	UE-260-20120	6	3	1.5-4.5	0.45	4780	12.9	49.8	Solder	0.078	0.314	0.944 x 1.063	1.25	1.09	.99
231790CC	PC-130F-18120	7	3	3-4.5	0.51	6260	8.1	35.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231870CC	UE-260-2290	6	3	1.5-4.5	0.62	6400	12.9	47.1	Solder	0.078	0.314	0.944 x 1.063	1.25	1.09	.99
231925CC	FE-260-2295	5	3	1.5-4.5	0.63	6850	14	53.9	Solder	0.078	0.314	0.937 x 1.063	.99	.89	.85
232071CC	FC-280-2485	1	4.5	4.5-7.2	0.88	7820	26	52.7	Solder	0.078	0.472	0.944 x 1.200	1.75	1.59	1.45
232080CC	FC-280-2865	1	4.5	4.5-6	1.38	9970	30.4	50.1	Solder	0.078	0.472	0.944 x 1.200	1.75	1.59	1.45
231765CC	PC-130SF-15160	7	4.8	3-9	0.42	4960	16.6	42.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231984CC	UE-260-14275	6	6	6-12	0.21	4150	13.1	45.8	Solder	0.078	0.314	0.944 x 1.063	1.49	1.35	1.19
231829CC	PC-280-16210	8	6	3-12	0.28	4260	18	47.6	Solder	0.078	0.433	0.944 x 1.200	2.45	2.19	1.99
231781CC	PC-130F-12240	7	6	3-9	0.25	6800	7	33.4	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231992CC	UC-260-18160	6	6	3-9	0.57	7460	22.1	49.9	Solder	0.078	0.314	0.944 x 1.063	1.49	1.35	1.19
231811CC	PC-280-20125	8	6	3-9	0.57	7560	21.1	48.6	Solder	0.078	0.433	0.944 x 1.200	2.45	2.19	1.99
232063CC	FC-280-20120	1	6	4.5-9	0.60	7800	24.1	53.5	Solder	0.078	0.472	0.944 x 1.200	1.75	1.59	1.45
232143CC	FF-050S-11170	3	7	1.5-9	0.17	8500	7	51.3	Solder	0.059	0.433	0.610 x 1.059	2.49	2.25	1.99
232151CC	FF-050S-09250	3	8	5-11.5	0.11	6300	7	51.4	Solder	0.059	0.433	0.610 x 1.059	2.49	2.25	1.99
231802CC	PC-130F-10370	7	9	6-12	0.15	6410	8.5	43.9	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231933CC	UC-280S-10450	9	12	12-24	0.11	2850	21.3	46.5	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232012CC	MD5-12160	10	12	12-24	0.30	4000	34.3	39.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
231968CC	UC-260-09530	6	12	12-24	0.12	4030	12.5	36.7	Solder	0.078	0.314	0.944 x 1.063	1.49	1.35	1.19
231845CC	PC-280-10420	8	12	6-24	0.13	4270	14.5	43.6	Solder	0.078	0.433	0.944 x 1.200	2.45	2.19	1.99
231731CC	PC-130SF-09480	7	12	6-24	0.11	4800	12.3	49.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231749CC	PC-130SF-09400	7	12	6-24	0.15	5130	14.3	42.5	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231896CC	FE-260-08450	5	12	6-12	0.11	5560	10.3	46.6	Solder	0.078	0.314	0.937 x 1.063	.99	.89	.85
231773CC	PC-130F-09490	7	12	6-18	0.51	6260	8.1	39.1	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
232160CC	FF-050S-08220	3	12	9-18	0.09	6270	5	31.5	Solder	0.059	0.433	0.610 x 1.059	2.49	2.25	1.99
231757CC	PC-130SF-10315	7	12	6-18	0.25	6350	20	44.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
232055CC	FC-280-12280	1	12	6-12	0.26	6840	21.4	48.6	Solder	0.078	0.472	0.944 x 1.200	1.75	1.59	1.45
231976CC	UC-260-12335	6	12	6-12	0.24	7050	19.5	50.0	Solder	0.078	0.314	0.944 x 1.063	1.49	1.35	1.19
231837CC	PC-280-15265	8	12	6-12	0.30	7230	25	52.5	Solder	0.078	0.433	0.944 x 1.200	2.45	2.19	1.99
232004CC	UC-280S-19160	9	12	6-12	0.57	9000	46.6	63.4	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232021CC	MD5-1885	10	12	6-18	0.74	9820	53.5	60.7	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
231950CC	UC-280S-20145	9	12	6-12	0.75	10000	55	64.0	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232039CC	MD5-2070	10	12	6-12	1.20	12150	62.2	54.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
232127CC	MD5-2554AS-AA	2	12	6-12	1.70	17000	72.9	62.4	Quick Connect	0.091	0.512	1.083 x 1.279	3.59	3.19	2.89
232119CC	MD5-2450AS-AA	2	12	6-12	2.00	17200	77.5	55.9	Quick Connect	0.091	0.512	1.083 x 1.279	3.59	3.19	2.89
232047CC	MD5-2445	10	12	6-12	2.05	19850	79.7	66.0	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
231941CC	UC-280S-12285	9	24	12-24	0.39	10300	54.4	62.4	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232098CC	MD5-15120AS-AA	2	24	12-24	0.70	15100	66.7	61.5	Quick Connect	0.091	0.512	1.083 x 1.279	3.59	3.19	2.89
232101CC	MD5-1980AS-AA	2	24	12-24	1.43	22600	88.5	60.9	Solder	0.091	0.512	1.083 x 1.279	3.59	3.19	2.89

JAMECO ReliaPro (Mabuchi-Type)

238465CC	RF-310TA-11400 (CCW)	11	2.5	1-6	0.06	2190	3.3	—	Solder	0.078	0.369	0.962 x 0.712	\$5.35	\$4.55	\$3.41
238457CC	RF-300PA-11400 (CW)	12	3	1-3	0.07	2400	4.3	56.4	Wires	0.078	0.415	0.960 x 0.504	4.35	3.89	3.49
238511CC	RF-500TB-12560	13	6	1.5-12	0.08	2180	11.6	50.6	Solder	0.078	0.385	1.259 x 0.767	4.49	4.09	3.65
238431CC	EG-530AD-6B (CCW)	14	6	4.2-7.5	0.13	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.49	4.09	3.65
238422CC	EG-530AD-6F (CW)	14	6	4.2-7.5	0.13	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.49	4.09	3.65
238449CC	EG-530AD-9B (CCW)	14	9	6-11	0.09	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.49	4.09	3.65
238490CC	EG-530YD-9B (CCW)	14	9	6.3-11.7	.13/.14	2000/4000	10	—	Solder	0.078	0.307	1.377 x 0.984	6.29	5.65	5.09
238502CC	EG-530KD-2B (CCW)	14	12	8.4-15.6	0.08	1600	10	—	Solder	0.078	0.307	1.377 x 0.984	4.95	4.45	3.99
238473CC	RF-370CA-15370	15	12	3-12	0.07	1970	16	61.4	Solder	0.078	0.346	0.960 x 1.213	5.55	4.95	4.49
238414CC	EG-530AD-2B (CW)	14	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	4.49	4.09	3.65
238406CC	EG-530AD-2F (CCW)	14	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	4.49	4.09	3.65
238481CC	EG-530YD-2B (CCW)	14	12	8.4-15	.13/.14	2000/4000	10	—	Solder	0.078	0.322	1.303 x 0.997	6.29	5.65	5.09

JAMECO ReliaPro

237391CC	29SYT003	4	13.5	13.5	13	18000	509	—	Quick Connect	0.125	1.003	1.141 x 2.283	\$5.95	\$5.35	\$4.85
237382CC	29SYT002	4	24	24	0.93	2680	178	—	Wire	0.100	0.334	0.787 x 1.89	5.95	5.35	4.85
237403CC	40SYT002	16	26	26	1.5	300	815	—	Quick Connect	0.196	1.021	1.57 x 3.85	25.95	23.35	20.99
237374CC	29SYT001	4	112	112	0.93	2680	178	—	Wire	0.100	0.334	1.15 x 1.89	5.95	5.35	4.85



DC and DC Gear Head Motors

Color Code Legend
New Sale Qty. Save

MITSUMI

RELIABLE MOTOR



1.2VDC-24VDC Motors

star motor

JOHNSON ELECTRIC



Part Number	Product Number	Manufacturer	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft "Dia.	Shaft "Length	Size (D" x L")	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
311976CC	20519-34442	NEW Johnson Electric	1.2	—	0.363	4692	130.4	55	0.08"/solder	0.08	0.33	1.00 x 1.20	\$1.25	\$1.09	\$.99
295849CC	RF-310T-11400	Mabuchi Motor	2.5	1-6	0.060	2190	3.3	—	0.06"/solder	0.08	0.89	0.96 x 0.71	1.49	1.34	1.21
154915CC	ST-130-12240 ¹	Star Motor	3	1.5-3	0.170	3588	7.4	55	0.09"/solder	0.08	0.37	0.79 x 1.13	1.09	.93	.69
154923CC	ST-130-22770 ¹	Star Motor	3	1.5-3	1.150	12500	10.3	40	0.09"/solder	0.08	0.37	0.79 x 1.13	.99	.84	.63
211246CC	RC-260RA-2670	Mabuchi Motor	4.5	3-4.5	1.430	15290	21.8	53	0.11"/solder	0.08	0.28	0.93 x 1.06	1.49	1.27	.95
267231CC	FRF-510-12620	Telco	6	3-12	0.030	2700	10.0	—	Wire w/ conn.	0.08	0.31	1.25 x 0.86	.99	.89	.79
177498CC	RC280RA-2485	Mabuchi Motor	7.2	3-14	1.180	14260	33.3	57	11"/solder	0.08	0.43	0.95 x 1.20	1.75	1.55	1.39
174692CC	21226-384221	Johnson Electric	12	9-14	0.015	3000	—	—	0.11"/solder	0.08	0.69	0.97 x 1.19	2.49	2.15	1.59
181112CC	M25N-2	Mitsumi	12	5-15	0.018	3000	18.0	—	11"/solder	0.08	0.26	0.97 x 1.30	2.29	2.05	1.85
206949CC	QJT360S14280	Nichibo	12	9-30	0.350	4930	44.5	52	0.11"/solder	0.09	0.45	1.09 x 1.30	1.69	1.45	1.09
153656CC	RS550PF	Mabuchi Motor ²	12	6-15	1.400	6500	44.1	—	0.15"/solder	0.13	0.66	1.45 x 2.25	3.29	2.99	2.69
267291CC	SUN-555A-LMRK	Telco	24	—	0.150	4100	84	—	Wire w/ conn.	0.13	0.40	1.45 x 2.25	2.99	2.54	1.91

¹ 154915CC/154923CC: Use bushing P/N 162392CC, pg 237

² Manufacturer may vary

JAMECO
ReliaPro



12VDC and 24VDC Reversible Gear Head Motors

- Solder-type terminal
- High torque construction
- Oil bearing design for long service life
- Insulation resistance: 10MΩ
- Dielectric strength: 300VDC



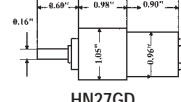
167038CC



159417CC

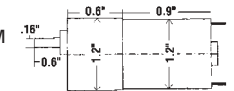


155011CC

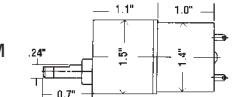


HN27GD Series

GH30GM Series



GH35GM Series



HN27GD Series

Part Number	Product Number	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Length (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
167038CC	GH12-0953Y	12	4.5 – 24	90	9	1200	188:1	1.0 x 0.9	1.1 x 1.0	.16 x .60	\$16.49	\$14.85	\$13.39
167046CC	GH12-1828Y	12	4.5 – 24	195	31	1300	90:1	1.1 x 1.3	1.1 x 0.8	.16 x .60	21.95	19.79	17.79

GH30GM Series

170641CC	GH12-1828Y-10	12	6.0 – 24	105	8	3500	332:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	\$23.95	\$21.59	\$19.49
153437CC	GH12-1045Y	12	3.0 – 12	90	7	800	200:1	0.9 x 1.0	1.1 x 0.6	.16 x .70	18.95	17.09	15.35
159417CC	GH12-1921Y	12	4.5 – 12	200	35	2000	132:1	1.2 x 1.2	1.2 x 0.9	.16 x .70	21.95	19.79	17.79
162190CC	GH12-1324Y225	12	4.5 – 12	145	176	300	30:1	1.0 x 0.9	1.1 x 0.6	.16 x .70	16.95	15.25	13.75

GH35GM Series

155011CC	GH12-1926	12	4.5 – 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.79	\$17.79
155820CC	GH12-1830Y-P	12	4.5 – 12	220	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	21.95	19.79	17.79
155838CC	GH12-1641T-L	12	3.0 – 12	250	15	3000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	23.95	21.59	19.45
152910CC	GH12-1926Y	12	4.5 – 12	172	35	2370	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	21.95	18.66	13.99
151440CC	GH12-1632TI	12	4.5 – 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	18.55	16.69
155854CC	GH12-1641T-F	12	3.0 – 12	250	71	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	21.95	19.79	17.79
155862CC	GH12-1926Y-F	12	4.5 – 12	300	70	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	21.95	19.79	17.79
161373CC	GH12-1345T	12	4.5 – 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	20.36	15.27
161381CC	GH12-1634T	12	4.5 – 12	293	145	850	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79
164785CC	GH12-1640Y	12	4.5 – 24	120	220	180	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.95	21.59	19.45
176049CC	GH12-1640Y00	24	12 – 24	340	1.8	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	21.95	18.66	15.52
176031CC	GH24-1640Y06	24	12 – 24	340	50	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79
176022CC	GH24-1640Y19	24	12 – 24	340	148	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79

Jameco's Low-Price Guarantee

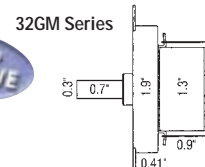
Happen to find a like product at a lower print-advertised price?
We'll beat that price by 10% right down to our cost! Just call us. It's that simple!



6VDC and 12VDC Reversible Gear Head Motors

32GM Series

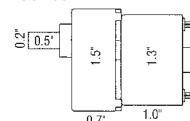
Part Number	Product Number	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Height (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
253403CC	32-009	6	64	2.7	2500	450:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	\$17.95	\$16.15	\$14.55
253391CC	32-008	6	60	3	2000	400:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253382CC	32-007	6	57	3.2	1800	377:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253374CC	32-006	6	51	4	1680	300:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253340CC	32-005	6	48	5	1600	240:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253323CC	32-004	6	44	6	1500	200:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253315CC	32-003	6	40	6.3	1350	190:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253307CC	32-002	6	38	8	1200	150:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253227CC	32-001	6	35	24	450	50:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55



253227CC

38GM Series

Part Number	Product Number	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Height (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
253534CC	38-010	12	97	24	7500	250:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	\$18.95	\$17.09	\$15.35
253526CC	38-009	12	93.5	36	5400	167:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253518CC	38-008	12	87.5	40	4800	150:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253500CC	38-007	12	82	60	3200	100:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253497CC	38-006	12	80	66	2100	90:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253489CC	38-005	12	76	110	1300	56:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253471CC	38-004	12	74	120	1100	50:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253462CC	38-003	12	68	180	800	33:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253454CC	38-002	12	65	200	700	30:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253446CC	38-001	12	61.8	600	350	10:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35



253446CC



1.3VDC and 3VDC Vibrating Motors

- Typical applications: cellular phones, pagers and toys



Fig. 1

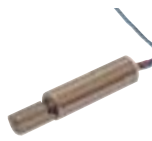


Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

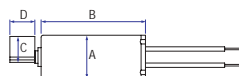


Fig. 3

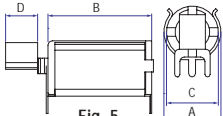


Fig. 5

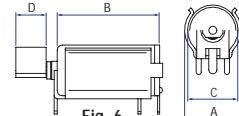


Fig. 6

Part No.	Mfr. Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) Dia. x L"	Shaft Size (C x D) Dia. x L"	Pricing		
									1	10	100
175062CC	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$5.49	\$4.94	\$4.45
256356CC	72K642	3	1.3 @ 70	1.00 - 1.60	7500 @ 1.3	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256372CC	72K631	3	1.3 @ 70	0.80 - 1.60	7500 @ 1.3	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
175396CC	OTL-4AL	2*	1.3 @ 65	0.70 - 1.60	8500 @ 1.3	0.8	0.16 x 0.55	0.15 x 0.23	6.49	5.85	5.19
256305CC	62K003	3	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256321CC	62K211	5	1.3 @ 80	0.80 - 1.60	8500 @ 1.3	PC Term	0.27 x 0.48	0.11 x 0.11	3.29	2.99	2.69
256268CC	52K019	6	1.3 @ 85	0.80 - 1.60	10000 @ 1.3	PC Term	0.20 x 0.40	0.10 x 0.07	5.29	4.79	4.29
256145CC	42K036	6	1.3 @ 80	0.85 - 1.60	11000 @ 1.3	PC Term	0.17 x 0.43	0.07 x 0.16	5.95	5.35	4.85
256049CC	42K041	3	1.3 @ 85	0.85 - 1.60	11000 @ 1.3	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85
256241CC	52K011	3	1.3 @ 85	0.80 - 1.60	11000 @ 1.3	1.0	0.20 x 0.39	0.10 x 0.12	5.29	4.79	4.29
256364CC	72K692	3	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256381CC	72K681	3	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
256313CC	62K053	3	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256330CC	62K261	5	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC Term	0.27 x 0.48	0.11 x 0.11	3.29	2.99	2.69
256250CC	52K061	3	3.0 @ 75	2.40 - 3.00	10000 @ 3.0	1.0	0.20 x 0.39	0.10 x 0.12	5.29	4.79	4.29
256276CC	52K069	6	3.0 @ 75	2.40 - 3.00	10000 @ 3.0	PC Term	0.20 x 0.40	0.10 x 0.07	5.29	4.79	4.29
256090CC	42K091	3	3.0 @ 80	2.40 - 3.60	11000 @ 3.0	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85
256153CC	42K086	6	3.0 @ 70	1.30 - 3.60	12000 @ 3.0	PC Term	0.17 x 0.43	0.07 x 0.16	5.95	5.35	4.85

Other Manufacturers — Limited Great Deals

190078CC	6CD-1201WL-00	4*	1.3 @ 80	—	7500 @ 1.3	1.1	0.24 x 0.47	0.10 x 0.22	\$6.55	\$5.57	\$4.18
185228CC	FM31E	7	3.0 @ 45	2.50 - 3.80	4500 @ 3.0	Solder pads	0.55 x 0.13	—	3.85	3.27	2.45

*More details on page 116

Vibrating Motors and AC Gear Motor

JAMECO
ReliaPro
✓ Reliable & Consistent
✓ Professional Grade
✓ Value Priced
✓ Backed by Jameco

Color Code Legend
New Sale Qty Save Closeout

JAMECO
ReliaPro

1.3VDC 8,500 RPM Vibrating Motor

- Typical applications: cellular phones, pagers, and toys
- Rated RPM: 8,500 @ 1.3VDC
- Direction of rotation: clockwise
- Operating voltage: 1.3V @ 65mA (typical)
- Lead length: 0.75"
- Size: (motor) 0.16" Dia. x 0.55"L (shaft) 0.15" Dia. x 0.23"L



Part No.	Description	1	10	100
175396CC	Vibrating motor	\$6.49	\$5.85	\$5.19

Namiki

1.3VDC 7,500 RPM Vibrating Motor

- Typical applications: cellular phones, pagers and toys
- Rated RPM: 7,500 @ 1.3VDC
- Clock-wise rotation
- 1.1" lead wires
- Operating voltage: 1.3VDC @ 80mA
- Size: (motor) 0.47"L x 0.24"Dia. (shaft) 0.22"L x 0.10"Dia.



Quantity SAVE

Part No.	Description	1	10	100
190078CC	Vibrating motor	\$6.55	\$5.57	\$4.18

120VAC Gear Motor

6.0 RPM - 2.9 Watt

- Operating voltage: 120VAC @ 60Hz
- Torque: >3.6 kg-cm
- Connector: 12" wires
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Shaft diameter: 0.27" • Shaft length: 0.65"
- Overall size: 2.0" Dia. x 1.0" thick
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor



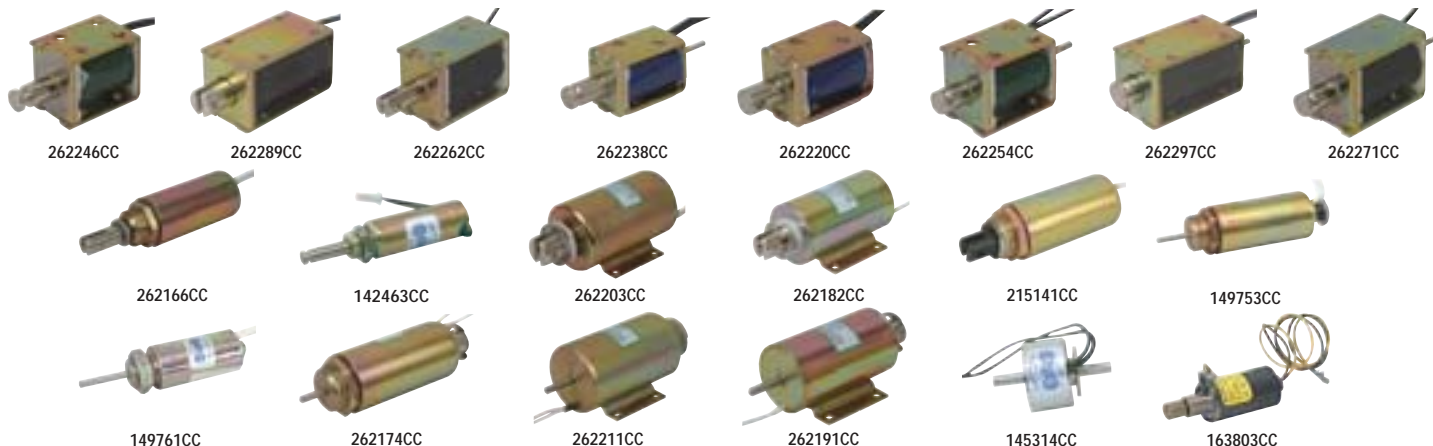
Part No.	Mfr. Cross Ref. No.	1	10	100
213487CC	50TYZ	\$14.95	\$13.46	\$12.11

Solenoids

JAMECO
ReliaPro

12VDC and 24VDC Continuous Push, Pull and Push/Pull Solenoids

Jameco Exclusive



Part No.	Mfr. Cross Reference No.	Type	Voltage (VDC)	Coil Res. (±10%) (Ohms)	Power Consump. (W)	Holding Force (lbs. @ 20°C)	Stroke	Size L x Dia. (in.) †	Shaft Dia. (in.)	Wt. (lbs.)	Pricing		
											1	10	100
262246CC	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	0.04	\$5.19	\$4.65	\$4.19
262289CC	SMO-1253L12AA	Open frame-pull	12	26	6.0	0.90	0.24	2.0 x 1.2 x 1.1	0.470	0.50	11.89	10.69	9.65
262262CC	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	7.29	6.56	5.90
262238CC	SMO-0415S12AA	Open frame-push	12	180	0.8	0.01	0.12	0.6 x 0.4 x 0.3	0.040	0.01	5.95	5.35	4.79
262220CC	SMO-0415L12AA	Open frame-push	12	180	0.8	0.01	0.12	0.6 x 0.4 x 0.3	0.160	0.01	4.79	4.29	3.89
262254CC	SMO-0520S12STD	Open frame-push	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.06/0.20*	0.04	6.39	5.75	5.15
262297CC	SMO-1253S12AA	Open frame-push	12	26	6.0	0.90	0.24	2.0 x 1.2 x 1.1	0.10/0.47*	0.50	13.09	11.79	10.59
262271CC	SMO-0837S12STD	Open frame-push	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	8.39	7.59	6.85
262166CC	SMT-1325L12STD	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	0.05	9.95	8.95	8.15
142463CC	SMT-1130L12A	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	6.95	6.26	5.63
262203CC	SMT-3864L24STD	Tubular-pull	24	34	17.0	1.32	1.18	2.5 x 1.5	0.620	1.10	29.95	26.95	24.29
262182CC	SMT-3257L24STD	Tubular-pull	24	44	13.0	3.30	0.70	2.3 x 1.3	0.500	0.65	19.59	17.69	15.89
215141CC	SMT-2251L24AA	Tubular-push	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	0.40	10.95	9.31	6.98
149753CC	SMT-1325S12A	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	9.95	8.96	7.92
149761CC	SMT-1632S12A	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	10.95	9.86	8.87
262174CC	SMT-2551S24STD	Tubular-push	24	58	10.0	1.32	0.70	2.0 x 1.0	0.120	0.40	15.95	14.39	12.99
262211CC	SMT-3864S24STD	Tubular-push	24	34	17.0	1.32	1.18	2.5 x 1.5	0.160	1.10	31.39	28.19	25.39
262191CC	SMT-3257S24STD	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	0.65	19.95	17.95	16.19
145314CC	SMT1913S12A	Tubular-push/pull	12	89	2.0	1.12	0.16	1.2 x 0.7	0.110	0.05	9.95	8.96	8.06

Other Manufacturers — Limited Great Deals

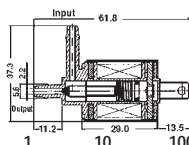
163803CC	A420-067074-01	Tubular-push	12	43	3.4	0.75	0.17	2.0 x 0.6	0.156	0.10	\$9.95	\$7.65	\$5.75
----------	----------------	--------------	----	----	-----	------	------	-----------	-------	------	--------	--------	---------------

† Open frame type dimensions: L" x W" x H"; * Dual shaft

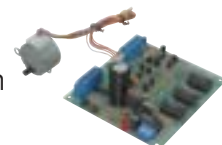
12VDC Solenoid Valve

- Operating voltage: 12VDC
- Operational temperature: -29°C to 85°C
- Air leakage: 1c.c./min. max. 4psi
- 0.250" quick disconnect terminals

Part No.	Description	Size	1	10	100
169834CC	Solenoid valve	1.2"L x 0.92" Dia.	\$6.95	\$6.25	\$5.59



See page 243
for our selection
of Motor Kits.





Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H

OMRON

Honeywell



187805CC



159581CC/187792CC
203545CC



159572CC

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Resistance (Initial)	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	25	50
159572CC	VS10N051C	Highly Electric	Hinge roller (0.60"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	\$2.89	\$2.54	\$2.28
159581CC	VS10N021C2	Highly Electric	Hinge lever (1.05"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	2.45	2.25	1.99
203545CC	V7-3E11D8-022	Honeywell	Hinge lever (1.07"L)	SPDT-NC	0.5A@125VAC, 10A@250VAC	—	10M/100k	.183" quick connect	\$4.05	1.59	1.45
187792CC	V-10G2-1C24K	Omron	Hinge lever (1.08"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.45	2.25	1.99
187805CC	V-10G3-1C24K	Omron	Long hinge lever (2.01"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.75	2.48	2.29



Subminiature Basic Switches

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H

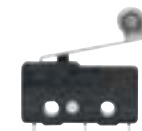
OMRON



187709CC



187733CC



159599CC

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Contact Force	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	25	50
187709CC	SS-SGL	Omron	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	\$1.59	\$1.45	\$1.29
187733CC	SS-SGL2	Omron	Hinge roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	1.25	1.09	.99
159599CC	SS0505A	Highly Electric	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	45g	30M/200k	Solder	\$3.25	1.19	.99

OMRON

D2F Series Subminiature Snap-Action Switch

Ideal for a wide variety of applications from household appliances and office equipment to audio and communications equipment.

- Actuator type: hinge lever (0.5"L)
- Contact form: SPDT-NC
- Contact rating: 2A @ 30VDC, 3A @ 125VAC
- Initial contact resistance: 30milliΩ max.
- Service life: 1M (mech.); 30k (elec.)
- Terminal type: PCB
- Lead spacing: 0.2"
- Dimensions: 0.50"L x 0.23"W x 0.26"H



Part No.	Product No.	1	25	50
188867CC	D2F-L	\$.89	\$.83	\$.79

Switchcraft®

Button-Switch® & Cord-Switch®

297300CC: Button-Switch®

- SPST-on (on)
- Color: black
- Mounting hole size: .469"
- Panel thickness: .297" max.
- Rating: 250mA, 30W maximum, AC, non-inductive load
- Compatible with P/N 297502CC



297300CC

297502CC: Cord-Switch®

- Plastic insulation
- Copper alloy plated housing and switch bushing
- SPST-on (on) red pushbutton switch (same rating as P/N 297300CC)
- Maximum cable outside diameter: .375"



297502CC

Part No.	Product No.	Description	1	10	25
297300CC	913	Button-switch	\$2.55	\$2.36	\$2.18
297502CC	ED903	Cord-switch	10.49	8.55	8.43

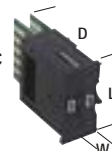
Pushbutton Binary Coded Decimal (BCD) Switch

26788CC (2 switches shown)



Thumbwheel Binary Coded Decimal (BCD) Switch

(2 switches shown) 26817CC



Pushbutton and Thumbwheel Switch Specifications:

- Contact resistance: 100mΩ max.
- 1/16" maximum panel thickness
- Gold plated BE-CU alloy contacts
- 0.15A @ 50VAC/28VDC
- Break before make
- Operating temperature: -40°C to +85°C
- Continuous load: 1 amp max.
- Front snap-tab mounting with end plates
- Switches snap together

Part No.	Mfr. Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	Pricing			
					1	10	50	100
26788CC	MX72	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	\$5.69	\$5.15	\$4.65	\$4.15
26761CC	MXEP2	Mounting end plates for 26788	1.2 x 0.2 x 1.1	—	1.15	.99	.89	.79
26817CC	MX83	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.49	3.95	3.55	3.19
26770CC	MXEP3	Mounting end plates for 26817	1.2 x 0.2 x 1.3	—	1.05	.88	.84	.77

JAMECO ValuePro

Mini Pushbutton BCD Switch

- Operating temperature: -10°C to +65°C
- Switches snap together
- Positive logic ("0" all open output)
- 28VDC @ 10A
- Break before make

Part No.	Mfr. Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	1	10	100
136557CC	MX061	10-position straight	.59 x .30 x 1.0	0.12"	\$3.79	\$3.41	\$3.06

JAMECO ValuePro

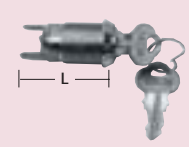
SPST Round Keylock Switches

- Used in computer & other security systems
- Key removable from 2 positions
- Mounting hole = 0.75" except P/N 106649CC = 0.5"

196648CC: all keys are alike
Includes: Mounting nut



106649CC



105831CC/196648CC

Part No.	Mfr. Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	Pricing			
						1	10	50	100
106649CC	KS4B	2, .21"	.55"	Barrel	125VAC/3A	\$3.59	\$3.29	\$2.89	\$2.49
105831CC	KS3B	2, .66"	1.48"	.25" quick connect	125VAC/6A	3.99	3.59	3.29	2.99
196648CC	3313E-M	2, .66"	1.48"	.25" quick connect	125VAC/6A	4.49	3.99	3.65	3.29

30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, we'll take it back! Details on page 246.

JAMECO ValuePro

A Jameco
EXCLUSIVE

Pushbutton Switches

New



Fig. 1



Fig. 2

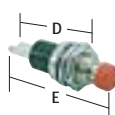


Fig. 3



Fig. 4



Fig. 5



Fig. 6

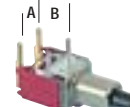


Fig. 7

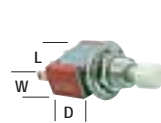


Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14

Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Mounting Hole Dia.	Type () Momentary	Dimensions (L" x W" x D")	Lead Spacing		Contact Rating	Terminal Type	Button Color	Pricing				
							A"	B"				1	10	100	500	1000
315432CC	R13-23A-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	\$1.29	1.20	.99	\$.92	\$.87
315483CC	R13-23B-R	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	1.29	1.19	.99	.92	.87
315441CC	R13-23A-B	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315491CC	R13-23B-B	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315459CC	R13-23A-BL	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Blue	1.29	1.19	.99	.92	.87
315504CC	R13-23B-BL	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Blue	1.29	1.19	.99	.92	.87
315467CC	R13-23A-W	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	White	1.29	1.19	.99	.92	.87
315512CC	R13-23B-W	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	White	1.29	1.19	.99	.92	.87
315475CC	R13-23A-Y	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Yellow	1.29	1.19	.99	.92	.87
315521CC	R13-23B-Y	1	2	31/64"	SPST off-on	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Yellow	1.29	1.19	.99	.92	.87
315598CC	R13-40A-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.35	1.23	1.10	.99	.93
315619CC	R13-40B-R	2	2	31/64"	SPST off-on	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.59	1.45	1.33	1.21	1.13
315580CC	R13-40A-B	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.35	1.23	1.10	.99	.93
315601CC	R13-40B-B	2	2	31/64"	SPST off-on	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.59	1.45	1.33	1.21	1.13
26622CC	MS102	3	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	.55	.50	.45	.35	.29
26649CC	MS103	3	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	.55	.50	.45	.35	.29
315643CC	R13-81-R	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Red	1.45	1.32	1.19	1.06	.94
315635CC	R13-81-B	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Black	1.45	1.32	1.19	1.05	.94
315627CC	R13-52A-W	5	2	23/32"	SPST off-(on)	1.48 (D) x 1.69 (W)	.41	—	.75A @ 125VAC	M3 Screw	White	2.05	1.88	1.70	1.53	1.41
154879CC	PS11-123	6	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	1.99	1.89	1.79	1.69	1.59
71642CC	SWB210	7	2	7/32"	SPST off-(on)	.36 x .20 x .33	.20	.20	1A @ 120VAC	PC right angle	Black	2.19	1.99	1.78	1.60	1.39
121304CC	CK8121	8	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	5A @ 125VAC	Solder lugs	White	3.59	3.25	2.95	2.65	2.39
28062CC	PB126	8	3	1/4"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	3.69	3.35	2.99	2.69	2.45
22201CC	J1881	9	2*	3/8"	SPST on-off, Alt†	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.19	1.09	.94	.83	.72
22219CC	J1882	9	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	1.09	.98	.88	.79	.70
174414CC	R13-510A	10	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	—	.167	3A @ 125VAC	Solder lugs	Red	.79	.78	.77	.74	.69
315900CC	R13-511A-R	11	2	1/2"	SPST off-(on)	1.00 (D)	.25	—	3A @ 125VAC	Solder	Red	3.09	2.82	2.54	2.29	2.06
315926CC	R13-511B-R	11	2	1/2"	SPST off-on	1.00 (D)	.25	—	3A @ 125VAC	Solder	Red	3.29	2.99	2.70	2.32	2.19
315897CC	R13-511A-B	11	2	1/2"	SPST off-(on)	1.00 (D)	.25	—	3A @ 125VAC	Solder	Black	3.09	2.82	2.54	2.29	2.06
315918CC	R13-511B-B	11	2	1/2"	SPST off-on	1.00 (D)	.25	—	3A @ 125VAC	Solder	Black	3.29	2.99	2.70	2.42	2.19
315660CC	R13-502A-R/B	12	2	1/2"	SPST off-(on)	1.02 (D)	.16	—	3A @ 125VAC	Solder	Red	1.85	1.67	1.51	1.36	1.24
315694CC	R13-502MA-R/B†	12	2	1/2"	SPST off-(on)	1.02 (D)	.16	—	3A @ 125VAC	Solder	Red	2.29	2.10	1.89	1.70	1.56
315651CC	R13-502A-B/B	12	2	1/2"	SPST off-(on)	1.02 (D)	.16	—	3A @ 125VAC	Solder	Black	1.85	1.67	1.51	1.36	1.24
315686CC	R13-502MA-B/B†	12	2	1/2"	SPST off-(on)	1.02 (D)	.16	—	3A @ 125VAC	Solder	Black	2.29	2.10	1.89	1.70	1.56
315766CC	R13-507A-R/B	13	2	41/64"	SPST on-off, Alt†	.80 (L)	.34	—	6A @ 125VAC	Solder	Red	1.65	1.50	1.35	1.22	1.11
315782CC	R13-507MA-R†	13	2	41/64"	SPST off-(on)	.80 (L)	.34	—	6A @ 125VAC	Solder	Red	2.99	2.76	2.48	2.23	2.05
315758CC	R13-507A-B/B	13	2	41/64"	SPST off-(on)	.80 (L)	.34	—	6A @ 125VAC	Solder	Black	1.65	1.50	1.35	1.22	1.11
315774CC	R13-507MA-B†	13	2	41/64"	SPST off-(on)	.80 (L)	.34	—	6A @ 125VAC	Solder	Black	3.05	2.76	2.48	2.23	2.05

Other Manufacturers — Limited Great Deals

154878CC	PS11-123	6	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	\$1.79	\$1.70	\$1.61	\$1.51	\$1.43
200774CC	TP12SH8AOE	7	3	7/32"	SPDT off-(on)	.32 x .20 x .33	.20	.10	1A @ 120VAC	PC right angle	Black	4.79	4.35	3.65	2.75	1.99
22200CC	J1881	9	2*	3/8"	SPST on-off, Alt†	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.09	.98	.83	.67	.50
22218CC	J1882	9	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	.99	.88	.79	.71	.62
307889CC	DS133	14	2	29/64"	SPST off-(on)	1.03 x .56 x .46	—	—	10A @ 125VAC	Solder Lugs	Black	4.15	3.75	3.49	3.14	2.83

† Alt = alternate action

* Lead wires

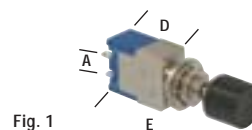
† Metal frames, nickel-plated brass

Phone 1-800-831-4242 Online www.Jameco.com Fax 1-800-237-6948

Order Anytime 24x7x365



Miniature Pushbutton Switches



- 6A@125V or 3A@250V
- Epoxy sealed
- Material: Alkyd base (UL94V-0), stainless steel cover



Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Mounting Hole Dia.	Type () Momentary	Dimensions (D" x E")	Lead Spacing		Contact Rating (A @ VAC)	Terminal Type	Button Color	Pricing				
							A"	B"				1	10	100	500	1000
315379CC	PA101A1-B/BL	1	2	1/4"	SPST on-off	1.2 x 1.7	.185	—	6 @ 125	Solder	Black	\$2.79	\$2.53	\$2.28	\$2.05	\$1.93
315387CC	PA101A1-R/BL	1	2	1/4"	SPST on-off	1.2 x 1.7	.185	—	6 @ 125	Solder	Red	2.79	2.53	2.28	2.05	1.93
315395CC	PA102A1-B/BL	1	2	1/4"	SPDT on-on	1.2 x 1.7	.185	—	6 @ 125	Solder	Black	2.89	2.63	2.37	2.14	1.99
315408CC	PA102A1-R/BL	1	2	1/4"	SPDT on-on	1.2 x 1.7	.185	—	6 @ 125	Solder	Red	2.89	2.63	2.37	2.14	1.99
315416CC	PA106A1-B/BL	1	2	1/4"	SPDT on-(on)	1.2 x 1.7	.185	—	6 @ 125	Solder	Black	2.89	2.63	2.37	2.14	1.99
315424CC	PA106A1-R/BL	1	2	1/4"	SPDT on-(on)	1.2 x 1.7	.185	—	6 @ 125	Solder	Red	2.89	2.63	2.37	2.14	1.99



Pushbutton Switches

- Contact rating: 3A @ 125VAC • 2-pin • Lead type: solder terminal
- 164566CC / 164638CC: Contact rating: .5A @ 125VAC
- 164582CC / 164671CC: Contact rating: 1A @ 125VAC
- 106112CC: Contact rating: 3A @ 110VAC



Figure 1



Figure 2

Miniature Soft Touch Switches

Part No.	Product No.	Fig.	Type () Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164494CC	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	\$2.09	\$2.05	\$1.97	\$1.88
164486CC	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	1.89	1.85	1.79	1.71
164523CC	DS466R	2	SPST off-(on)	1.2"L x .60"Sq.	.160"	.383"	Red	1.95	1.87	1.81	1.74
196921CC	196921I	2	SPST off-on	1.6"L x 1.6"Sq.	.189"	.450"	Red	1.69	1.49	1.22	.92
164558CC	DS471R	3	SPST off-(on)	1.2"L x .75"Sq.	.160"	.387"	Red	1.95	1.87	1.81	1.74



Figure 3



Figure 4



Figure 5



Figure 6

Standard Touch Switches

Part No.	Product No.	Fig.	Type () Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164566CC	MS402R	4	SPST off-(on)	.73"L x .22"Dia.	.078"	.190"	Red	\$4.25	\$1.15	\$1.14	\$1.10
164582CC	DS016B	5	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	1.59	1.54	1.48	1.42
164638CC	MS3120R	6	SPST off-(on)	1.1"L x .31"Dia.	.175"	.268"	Red	1.65	1.49	1.34	1.26
164671CC	NS801MOB	7	SPST off-(on)	1.1"L x .59"Dia.	.213"	.468"	Black	2.45	2.05	1.94	1.77
106112CC	DS412R*	8	SPST off-(on)	.63"L x .66"Dia.	.275"	.750"	Red	1.05	1.03	.99	.98

* Solder lugs



Figure 7



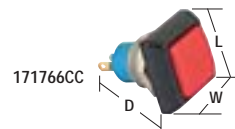
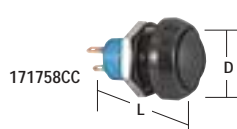
Figure 8



Pushbutton Switches

IP and AV Series Pushbutton Switches

- Panel mount
- 171758CC / 171766CC: IP Series
- Initial contact resistance: 50mΩ max.
- Insulation resistance: 1GΩ min. @ 500VDC
- Mounting hole: 1/2"Dia.
- Dielectric strength: 1500Vrms min.
- Mechanical life: 1,000,000 cycles min.
- 171774CC: AV Series
- Initial contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Mounting hole: 3/4"Dia.
- Dielectric strength: 1000Vrms min.

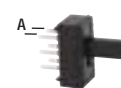


Part No.	Product No.	Pins	Type () Momentary	Dimensions			Lead Spacing	Contact Rating	Terminal Type	Pricing			
				L	W	D				1	10	100	250
171758CC	IPR3SAD2	2	SPST off-(on)	0.82"	—	0.46"	0.19"	0.2A @ 250VAC	Solder	\$10.39	\$9.35	\$8.45	\$7.49
171766CC	IPC3SAD6	2	SPST off-(on)	0.82"	0.69"	0.46"	0.19"	0.2A @ 250VAC	Solder	10.39	9.35	8.45	7.49
171774CC	AV191003C900	2	SPST off-(on)	1.20"	—	0.87"	0.37"	0.2A @ 48VDC	Screw	11.95	10.84	9.75	8.79

Slide Switches



- Two mounting flanges
- Nylon actuator
- Top actuation
- Phenolic insulated



Part No.	Pins	Type	Description	Housing Material #	Dimensions			Lead Spacing		Contact Rating	Lead Length	Actuator Height	Pricing			
					L"	W"	D"	A"	B"				1	10	100	250
109170CC	3	SPDT on-on	PC mount	Plastic	.22	.45	.23	—	.12	0.5A @ 50VDC	.17"	.15"	\$.31	\$.26	\$.23	\$.19
161816CC	6	DPDT on-on†	PC mount	Plastic	.38	.14	.13	.13	.11	0.1A @ 20VDC	.11"	.08"	.59	.49	.39	.29

Other Manufacturers — Limited Great Deals

204142CC	3	SPDT on-on*	PC mount	Plastic	.77	.40	.37	—	.19	2.0A @ 28VDC	.19"	.17"	\$.39	\$.37	\$.29	\$.22
202972CC	6	DPDT on-on	PC mount	Plastic	.77	.43	.29	.24	.18	1.0A @ 24VDC	.21"	.51"	.20	.16	.14	.13

† Plastic — flanges * Side actuated # Plastic: 6/6 nylon; metal: steel zinc plated

Opening an account is easy!!

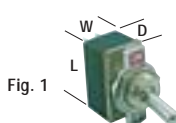
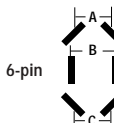
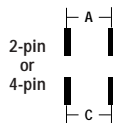
Corporate Customers

Call 1-800-831-4242 for details today.

Standard Toggle Switches

- Panel mount
- Mounting hole diameter: 1/2"
- Full-size round lever for standard and metal
- Full-size flat lever for plastic
- Medium duty
- Keyed plate indicates switch position

Includes: Mounting hardware and on/off plate



Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76241CC	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4 @ 125 & 2 @ 250	Solder lugs	Round	\$1.49	\$1.29	\$1.19	\$.99	\$.89
76232CC	SWM125	2	2	SPST on-off	1.00 x .53 x .51	—	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	1.75	1.59	1.45	1.29	1.15
317817CC	R13-25A1-05	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	1.39	1.29	.85	.81	.80
317833CC	R13-25A2-05	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	1.99	1.75	1.39	1.25	1.19
317809CC	R13-25A1-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	1.39	1.29	.85	.81	.80
317825CC	R13-25A2-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	1.99	1.75	1.38	1.25	1.19
318001CC	R13-28A-01	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	1.99	1.75	1.39	1.25	1.10
318019CC	R13-28A-05	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	1.99	1.45	1.39	1.25	1.10
318027CC	R13-28A-06	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.25	1.99	1.55	1.39	1.25
317892CC	R13-25C1-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.39	2.15	1.69	1.52	1.46
317913CC	R13-25C2-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.51	1.49
317884CC	R13-25C1-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	2.85	2.55	2.00	1.79	1.72
317905CC	R13-25C2-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	2.45	2.15	1.69	1.51	1.49
318086CC	R13-28C-01	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.45	2.15	1.69	1.52	1.39
318094CC	R13-28C-05	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.45	2.15	1.69	1.52	1.39
318107CC	R13-28C-06	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.75
317930CC	R13-25D1-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.45	2.15	1.69	1.55	1.45
317956CC	R13-25D2-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.55	1.45
317921CC	R13-25D1-01	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	2.45	2.15	1.69	1.55	1.45
317948CC	R13-25D2-01	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	2.45	2.15	1.69	1.55	1.45
318123CC	R13-28D-01	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.45	2.15	1.69	1.52	1.47
318131CC	R13-28D-05	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.45	2.15	1.69	1.52	1.47
318140CC	R13-28D-06	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.69
158060CC	JKN32	1	4	DPST on-off	1.00 x .56 x .52	.23	—	.23	4 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.05	.95	.85	.75
76260CC	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	1.75	1.59	1.45	1.29	1.15
158078CC	JKN3CC	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	1.75	1.59	1.29	.99	.85
317850CC	R13-25B1-05	3	6	DPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25
317876CC	R13-25B2-05	3	6	DPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	3.75	3.35	2.59	2.35	2.25
317841CC	R13-25B1-01	3	6	DPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	3.75	3.35	2.61	2.34	2.25
317868CC	R13-25B2-01	3	6	DPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	3.75	3.35	2.59	2.35	2.25
318043CC	R13-28B-01	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	3.75	3.35	2.59	2.35	2.09
318051CC	R13-28B-05	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	3.75	3.35	2.59	2.35	2.09
318060CC	R13-28B-06	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	4.59	4.15	3.19	2.89	2.75
317922CC	R13-25E1-05	3	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25
317999CC	R13-25E2-05	3	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	3.75	3.35	2.61	2.34	2.25
317964CC	R13-25E1-01	3	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	3.75	3.35	2.61	2.34	2.25
317981CC	R13-25E2-01	3	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	3.75	3.35	2.61	2.34	2.25

Other Manufacturers — Limited Great Deals

76259CC	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	\$1.59	\$1.45	\$1.29	\$1.15	\$1.05
---------	--------	---	---	------------	------------------	-----	-----	-----	-------------------	-------------	-------	--------	--------	--------	--------	--------

Toggle Switches at Awesome Prices!

75969CC		75889CC		75871CC		105814CC	
Jameco Part No.	Product No.	Jameco Price	Digi-Key Price	Mouser Price	Newark Price	Minimum Savings	Discount
318060CC	R13-28B-06	\$4.59	\$9.39	\$6.95	\$5.75	\$1.16	20.2%
105814CC	GTS-113BLK	\$1.59	\$6.30	\$2.34	\$5.35	\$0.75	32.1%
75969CC	GTS302	\$1.55	\$3.31	\$3.16	\$3.21	\$1.61	50.9%
75889CC	GTS107	\$1.99	\$5.82	\$5.06	\$5.74	\$3.07	60.7%
75871CC	G/(MTS-805BLK)	\$1.49	\$4.98	\$2.03	\$4.75	\$0.54	26.6%
317892CC	R13-25C1-05	\$2.39	\$5.34	\$3.50	\$3.03	\$0.64	21.1%
26331CC	GTS103-P	\$1.39	\$5.43	\$2.03	\$3.21	\$0.64	31.5%
317884CC	R13-25C1-01	\$2.85	\$5.34	\$3.95	\$3.59	\$0.74	20.6%

These are single unit prices taken from each party's website on December 10, 2004, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

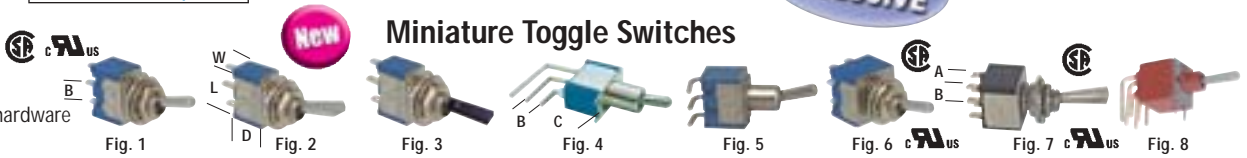
Don't worry about backorders. Over 99% of our products are in stock!

We'll Send It Today!

Just place your order by 6PM EST for same business day shipment.

• Mounting hole diameter: 1/4"

Includes: Mounting hardware



Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type () Momentary	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76523CC	JMT113	1	2	SPST on-off	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	\$1.15	\$1.03	\$.93	\$.75	\$.65
317227CC	TD101A1	1	2	SPST on-off	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Round	1.95	1.89	1.81	1.75	1.33
317286CC	TD101F1	2	2	SPST on-off	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	1.99	1.96	1.88	1.81	1.38
317340CC	TD101G1	3	2	SPST on-off	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Plastic	1.95	1.89	1.81	1.74	1.33
21936CC	SPMT123	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.03	.93	.75	.65
317235CC	TD102A1	1	3	SPDT on-on	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Round	2.09	2.05	1.98	1.90	1.45
317294CC	TD102F1	2	3	SPDT on-on	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	2.19	2.15	2.07	1.99	1.52
317358CC	TD102G1	3	3	SPDT on-on	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Plastic	1.95	1.89	1.81	1.75	1.33
21910CC	JMT121	1	3	SPDT on-off-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.35	1.25	1.09	.95	.85
317243CC	TD103A1	1	3	SPDT on-off-on	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Round	2.35	2.27	2.18	2.09	1.95
317307CC	TD103F1	2	3	SPDT on-off-on	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	2.39	2.34	2.25	2.16	1.65
317366CC	TD103G1	3	3	SPDT on-off-on	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.29	2.24	2.16	2.07	2.03
22832CC	LFH123	2	3	SPDT on-on	.52 x .28 x .36	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.15	1.05	.95	.85	.75
75854CC	SWM132	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16	1.04	.94	.69
317260CC	TD105A1	1	3	SPDT on-off-(on)	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Round	2.35	2.27	2.18	2.09	1.95
317323CC	TD105F1	2	3	SPDT on-off-(on)	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	2.39	2.34	2.25	2.16	1.65
75889CC	SWM129	1	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.99	1.85	1.55	1.09	.95
317251CC	TD104A1	1	3	SPDT (on)-off-(on)	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Round	2.35	2.27	2.18	2.09	1.95
317315CC	TD104F1	2	3	SPDT (on)-off-(on)	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	2.45	2.39	2.31	2.21	1.70
26331CC	MPC123	1	3	SPDT on-on	.52 x .32 x .37	—	.185	—	6 @ 125 & 3 @ 250	PC straight	Round	1.39	1.25	1.12	.95	.78
26315CC	MPC121	1	3	SPDT on-off-on	.52 x .32 x .37	—	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.15	1.05	.95	.75
71597CC	SWM148	4	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	5 @ 125 & 2 @ 250	PC right angle	Round	1.19	1.09	.91	.73	.55
75871CC	SWM145	5	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35	1.09	.86	.79
317278CC	TD106A1	1	3	SPDT on-(on)	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Round	2.09	2.05	1.98	1.90	1.45
317331CC	TD106F1	2	3	SPDT on-(on)	.51 x .28 x .36	—	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	2.19	2.15	2.07	1.99	1.52
317403CC	TD201A1	6	4	DPST on-off	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Round	4.19	3.62	2.99	2.76	2.64
317462CC	TD201F1	7	4	DPST on-off	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	5.49	4.74	3.94	3.62	3.46
22841CC	LFH221	7	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	3 @ 125 & 1 @ 250	Solder lugs	Flat	1.45	1.35	1.19	1.09	.95
21979CC	MPT223	6	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.29	1.15	.99	.59
22859CC	LFH223	7	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.29	1.19	1.05	.95	.85
75900CC	SWM133	6	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.85
317411CC	TD202A1	6	6	DPDT on-on	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Round	4.19	3.62	2.99	2.76	2.64
317471CC	TD202F1	7	6	DPDT on-on	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	5.49	4.74	3.94	3.62	3.46
317454CC	TD206A1	6	6	DPDT on-(on)	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Round	7.89	7.16	6.72	6.24	5.97
317518CC	TD206F1	7	6	DPDT on-(on)	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	7.39	7.05	6.65	6.35	5.99
21952CC	JMT221	6	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16	1.04	.89	.75
317420CC	TD203A1	6	6	DPDT on-off-on	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Round	4.79	4.13	3.44	3.16	2.99
317489CC	TD203F1	7	6	DPDT on-off-on	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	5.99	5.17	4.31	3.95	3.78
317446CC	TD205A1	6	6	DPDT on-off-(on)	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Round	4.99	4.30	3.58	3.30	3.14
317500CC	TD205F1	7	6	DPDT on-off-(on)	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	7.39	7.05	6.39	5.99	5.89
75951CC	SWM130	6	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.89
317438CC	TD204A1	6	6	DPDT (on)-off-(on)	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Round	4.79	4.30	3.58	3.30	3.14
317497CC	TD204F1	7	6	DPDT (on)-off-(on)	.51 x .47 x .36	.20	.185	—	10 @ 125 & 6 @ 250	Solder	Flat	5.99	5.17	4.30	3.95	3.78
26366CC	MPC223	6	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.49	1.35	1.25	.99	.89
26358CC	MPC221	6	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.16	1.04	.89	.75

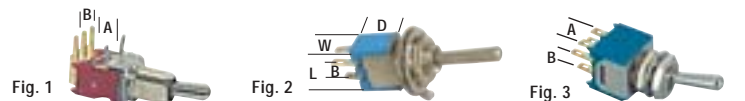
Other Manufacturers — Limited Great Deals

105814CC	SWA208	6	6	DPDT on-(on)	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	\$1.59	\$1.45	\$1.29	\$1.15	\$.89
202964CC	WI24	8	6	DPDT on-off-(on)	.50 x .50 x .46	.15	.15	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.59	.79	.68	.54	.41

Subminiature Toggle Switches

• Mounting hole diameter: 7/32" • Pre-tinned leads • Metal construction

Includes: Mounting hardware



Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing		Contact Rating	Lead Type	Lever Type	Pricing				
						A"	B"				1	10	100	500	1000
106067CC	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	\$1.99	\$1.83	\$1.59	\$1.44	\$1.32
72160CC	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.09	1.07	1.04	.99	.84
75969CC	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3A @ 125VAC	Solder lugs	Round	1.55	1.44	1.21	.86	.63
72557CC	SW1502	2	3	SPDT on-off-on	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.35	1.25	1.05	.85	.60
138907CC	SW1503	3	6	DPDT on-off-on	.36 x .37 x .33	.17	.10	3A @ 120VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55
75977CC	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55

Rocker Switches

New



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

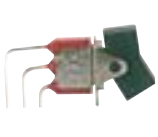


Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Type	Contact Rating (A @ VAC)	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Lead Space A" B"	Dimensions (L"xW"xD")	Pricing		
													1	10	100
316321CC	R13-213A-B-03	1	2	SPST on-off	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Black	Rectangle	0.13	.80 x .57 x .65	\$3.39	\$3.07	\$2.76
316339CC	R13-213A-R-03	1	2	SPST on-off	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Red	Rectangle	0.13	.80 x .57 x .65	3.39	3.07	2.76
316451CC	R13-243A-02	2	2	SPST on-off	8 @ 125	.78"L x .28"W	Panel Mnt	.187" quick conn.	Black	Rectangle	0.35	.83 x .37 x .85	1.39	1.26	1.14
316460CC	R13-243E-02	2	2	SPST on-(off)	8 @ 125	.78"L x .28"W	Panel Mnt	.187" quick conn.	Black	Rectangle	0.35	.83 x .37 x .85	1.95	1.77	1.59
316478CC	R13-243F-02	2	2	SPST (on)-off	8 @ 125	.78"L x .28"W	Panel Mnt	.187" quick conn.	Black	Rectangle	0.35	.83 x .37 x .85	2.05	1.88	1.69
316232CC	R13-130A-01	3	2	SPST on-off	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black (I-O)	Round	0.20	1.02 (L) x 1.00 (D)	1.19	1.05	.689
316267CC	R13-136A-B-05	4	2	SPST on-off	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black (I-O)	Square	0.20	.91 x .91 x .73	1.75	1.58	1.41
316275CC	R13-136A-R-05	4	2	SPST on-off	10 @ 125	.72" Dia.	Panel Mnt	Solder	Red (I-O)	Square	0.20	.91 x .91 x .73	1.75	1.58	1.41
316380CC	R13-228A-05	5	2	SPST on-on	10 @ 125	.63" Dia.	Panel Mnt	Solder	Black (I-O)	Rectangle	0.17	1.13 x .75 x .67	2.35	2.12	1.91
196154CC	R30NSA	6	2	SPST on-off	15 @ 125	1.07"L x .43"W	Panel Mnt	Quick connect	Solid Black	Rectangle	0.45	1.07 x .42 x .77	1.75	1.59	1.44
316013CC	R13-66A-B-02	7	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Black top	Rectangle	0.31	.83 x .59 x .47	.99	.86	.56
316021CC	R13-66A-R-02	8	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red top	Rectangle	0.31	.83 x .59 x .47	.99	.86	.56
316128CC	R13-73B-R-02	9	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red Illum.	Rectangle	0.35	.83 x .59 x .87	1.49	1.35	1.22
316136CC	R13-73B-Y-02	9	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Yellow Illum.	Rectangle	0.35	.83 x .59 x .87	1.49	1.35	1.22
316144CC	R13-73B-G-02	9	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Green Illum.	Rectangle	0.35	.83 x .59 x .87	1.65	1.50	1.35
316398CC	R13-228B-R-05	5	3	SPST on-off	10 @ 125	.63" Dia.	Panel Mnt	Solder	Red Illum.	Rectangle	0.17	1.13 x .75 x .67	3.05	2.76	2.48
316401CC	R13-228B-G-05	5	3	SPST on-off	10 @ 125	.63" Dia.	Panel Mnt	Solder	Green Illum.	Rectangle	0.17	1.13 x .75 x .67	3.05	2.76	2.48
316030CC	R13-66B-R-02	10	3	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red Illum.	Rectangle	0.31	.83 x .59 x .47	1.19	1.02	.67
316048CC	R13-66B-G-02	10	3	SPST on-off	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Green Illum.	Rectangle	0.31	.83 x .59 x .47	1.19	1.02	.67
140531CC	CK7101	11	3	SPDT on-on	5 @ 120	—	PC Mnt	PC right angle	Solid Black	Rectangle	0.15	.50 x .50 x .27	1.49	1.34	1.21
316363CC	R13-213C-03	1	3	SPDT on-on	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Black	Rectangle	0.20	.80 x .57 x .65	4.15	3.77	3.39
316419CC	R13-228C-05	5	3	SPDT on-on	10 @ 125	.63" Dia.	Panel Mnt	Solder	Black	Rectangle	0.17	1.13 x .75 x .67	3.19	2.91	2.61
316259CC	R13-130C-01	12	3	SPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black	Round	0.20	1.02 (L) x 1.00 (D)	1.35	1.24	.78
316304CC	R13-136C-B-05	13	3	SPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black	Square	0.20	.91 x .91 x .73	2.05	1.88	1.69
316312CC	R13-136C-R-05	13	3	SPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Red	Square	0.20	.91 x .91 x .73	2.05	1.88	1.69
316056CC	R13-66C-B-02	10	3	SPDT on-on	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Solid Black	Rectangle	0.31	.83 x .59 x .47	1.19	.96	.60
316064CC	R13-66C-R-02	10	3	SPDT on-on	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Solid Red	Rectangle	0.31	.83 x .59 x .47	1.19	.96	.60
316072CC	R13-66D-02	10	3	SPDT on-off-on	16 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Black (I-O-I)	Rectangle	0.31	.83 x .59 x .47	1.19	1.02	.80
316371CC	R13-213F-03	1	4	DPST on-off	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Black	Rectangle	0.20	.80 x .57 x .65	4.65	4.24	3.81
316110CC	R13-73A2-B-02	14	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Solid Black (I-O)	Rectangle	0.20	.83 x .59 x .87	1.69	1.58	1.42
316152CC	R13-73C-R-02	14	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Red Illum.	Rectangle	0.20	.83 x .59 x .87	2.05	1.88	1.69
316161CC	R13-73C-Y-02	14	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Yellow Illum.	Rectangle	0.20	.83 x .59 x .87	2.05	1.88	1.69
316179CC	R13-73C-G-02	14	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel Mnt	.187" quick conn.	Green Illum.	Rectangle	0.20	.83 x .59 x .87	2.25	2.04	1.84
316347CC	R13-213B-B-03	15	6	DPDT on-on	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Black	Rectangle	0.20	.80 x .57 x .65	5.99	5.42	4.88
316355CC	R13-213B-R-03	15	6	DPDT on-on	6 @ 125	.48" Dia.	Panel Mnt	.110" quick conn.	Red	Rectangle	0.20	.80 x .57 x .65	5.99	5.42	4.88
316241CC	R13-130B-01	12	6	DPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black	Round	0.20	1.02 (L) x 1.00 (D)	1.49	1.36	1.23
316283CC	R13-136B-B-05	13	6	DPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Black	Square	0.20	.91 x .91 x .73	2.45	2.20	1.99
316291CC	R13-136B-R-05	13	6	DPDT on-on	10 @ 125	.72" Dia.	Panel Mnt	Solder	Red	Square	0.20	.91 x .91 x .73	2.45	2.20	1.99

Other Manufacturers — Limited Great Deals

140530CC	CK7101	—	3	SPDT on-on	5 @ 120	—	PC mnt. vert.	PC right angle	Black	Rectangle	0.15	.50 x .50 x .27	\$1.49	\$1.34	\$1.21
163344CC	CKD103J5W	16	3	SPDT on-off-on	5 @ 125	.77"L x .51"W	Panel Mnt.	Solder	White	Lever type	0.20	.67 x .47 x .59	1.05	.85	.64

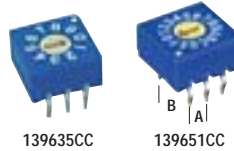
Corporate Customers

Opening an account is easy!! Call 1-800-831-4242 for details today.

Excell Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction • Terminals: PC pin leads • Life: 10,000 cycles min.
- Op force: 500g-cm max. • Max. switching load rating: 25mA @ 24VDC
- Material: 94V-0 grade, UL approved fire retardant plastic
- Lead spacing: A = 0.1"; B = 0.3"

Part No.	Product No.	Position	Adjust	Code Type	W" x D" x H"	1	10	50	100
139635CC	ERD110RS(DRD10)	10	top	BCD	.39 x .39 x .20	\$2.59	\$2.33	\$2.07	\$1.86
139651CC	ERD116RS	16	top	Hex	.39 x .20 x .39	2.75	2.49	2.22	1.99



Replacement Switches for AT-Style Computer Cases

PC Pushbutton Switches

- Alternate action double pole switch
- Contacts rated at 250VAC
- UL/CSA/VDE approved
- Size: 0.9"L x 0.7"W x 0.9"D



Part No.	Description	Current	1	10	100
127044CC	PC push button	7.5A ..	\$2.95	\$2.25	\$1.69
174238CC	PC push button	8A	\$2.29 .94	.85	.78

PC Rocker Switch

- For mini-tower cases
- Contacts rated at 250VAC
- UL/CSA approved • DPST
- Size: 0.9"L x 1.2"W x 1.4"D



Part No.	Description	Current	1	10	100
127028CC	PC rocker	10A	\$2.95	\$2.69	\$2.39

OMRON D2F Series Subminiature PCB Plunger Switch

Use in Place of Shorting Block

- SPST (on/off)
- Contact rating: 50mA @ 24VDC
- Non-removable plunger
- Size: 0.2"W x 0.1"D x 0.38"H
- Lead length: 0.1"L
- 10 piece minimum



Part No.	Description	10	100	1000
172700CC	Plunger switch	.....	\$0.10	\$0.085

Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST
- 171871CC: 500mA @ 100VDC
- Size: 0.53"L x 0.1"Dia.
- 164081CC: 1A @ 250VAC; 1A @ 50VDC
- Size: 1.43"L x 0.2"Dia.



Part No.	Mfr. Cross Ref. No.	1	10	100	1000
171871CC	MKA141011015	.....	\$.79	\$.64	\$.46
164081CC	MRS1	.....	.79	.63	.43

Pushbutton Switches at Awesome Prices!

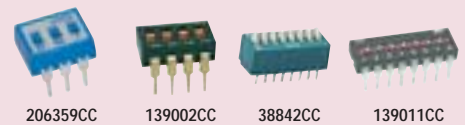
Jameco Part No.	Product No.	Jameco Price	Digi-Key Price	Mouser Price	Newark Price	Minimum Savings	Discount
196921CC	196921	\$1.69	\$2.32	\$2.15	Not Offered	\$0.46	21.4%
297502CC	ED903	\$10.49	Not Offered	\$16.70	\$12.64	\$2.15	17.0%
171774CC	AV191003C900	\$11.95	Not Offered	\$13.95	\$14.07	\$2.00	14.3%
71642CC	G1B210	\$2.19	\$4.17	\$5.08	\$6.21	\$1.98	47.5%
297300CC	913	\$2.55	Not Offered	\$3.37	\$3.76	\$0.82	24.3%

These are single unit prices taken from each party's website on December 10, 2004, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

Switches

JAMECO ValuePro

DIP Switches



- Switch contacts: SPST
- Switches are numbered
- 50VDC @ 100mA
- Molded construction
- Standard switches have raised lever
- LP switches are flush to casing • Pre-tinned leads

Compatible Socket Chart, see page 100 for Sockets

Switch	Socket	Switch	Socket	Switch	Socket
109058CC	112192CC	38827CC	37161CC	101857CC	38113CC
38819CC	51570CC	38842CC	37372CC	38798CC	38607CC
139003CC	51570CC	139011CC	37372CC	38800CC	39378CC
109057CC	112192CC	139002CC	51570CC	101856CC	38113CC
38818CC	51570CC	38826CC	37161CC	38797CC	38607CC
206359CC	51570CC	38834CC	37161CC		

Part No.	Mfr. Cross Ref. No.	Pos.	1	10	100	1000
109058CC	206-2	2	\$.75	\$.68	\$.61	\$.55
38819CC	206-4	4	.65	.55	.49	.45
139003CC	206-4LP	4	.79	.70	.55	.44
38827CC	206-6	6	.99	.89	.79	.72
38842CC	206-8	8	.89	.80	.72	.64
139011CC	206-8LP	8	.85	.76	.61	.47
101857CC	206-9	9	.85	.79	.69	.49
38798CC	206-10	10	.95	.86	.68	.51
38800CC	206-12	12	1.05	.99	.93	.56

Other Manufacturers — Limited Great Deals

109057CC	206-2*	2	\$.75	\$.68	\$.61	\$.55
38818CC	206-4	4	\$.65 .48	.44	.40	.36
206359CC	206-3*	3	.79	.65	.55	.413
139002CC	206-4LP*	4	.79	.70	.55	.44
38826CC	206-6*	6	.99	.89	.79	.72
38834CC	206-7*	7	.95	.86	.68	.50
101856CC	206-9*	9	.85	.79	.69	.49
38797CC	206-10*	10	.95	.86	.77	.64

* Manufacturer may vary

Switch Grab Bags



- 18235CC: 50 pcs. assorted – toggle, pushbutton, rocker and slide switches
- 135378CC: 1 lb. (approx. 135 pcs.) assorted – toggle, pushbutton, rocker and slide switches

Part No.	Cross Ref. No.	Wt. (lbs.)	1	10
18235CC	GB165	0.4	\$8.75	\$7.69
135378CC	GB165LB	1.0	18.95	16.95

Sale items highlighted in yellow.

Jameco Special Value!

Great quantity discounts highlighted in green.

JAMECO ValuePro



Fig. 1

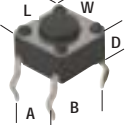


Fig. 2

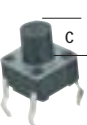


Fig. 3

Tactile Switches

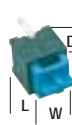


Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

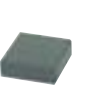


Fig. 10



Fig. 11

* 10 piece minimum

- Bounce time: 10 msec.
- SPST momentary ON
- Contact resistance: 100mΩ
- Lead type: PC

Part No.	Mfr. Cross Ref. No.	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A*	B*			1	10	100	250
122972CC	DTS1212	1	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	\$.26	\$.23	\$.19	\$.17
119010CC	KTIBICM	2	8	.24	.24	.15	.30	.17	.25	20 @ 15	Black	.27	.24	.22	.20
149948CC	KT11P4CM	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	*	.23	.21	.19
115087CC	KIE22	4	2	.24	.24	.22	—	—	.25	20 @ 15	Blue	*	.25	.223	.204
199727CC	EVQ11A04M	7	2	.24	.24	.14	.30	.20	—	20 @ 15	White	.30	.221	.196	.187
200362CC	EVQPB04K	8	5	.24	.24	.14	.30	.17	.26	20 @ 15	Black	.29	.26	.23	.20
137189CC	PBS103	1	4	.47	.47	.17	—	.20	.50	50 @ 12	Black	.39	.35	.32	.19
153251CC	SDT620K	2	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.29	.25	.20	.18
155248CC	KRS-3550-BK	5	2	.24	.14	.15	—	—	.27	50 @ 12	Black	.22	.20	.16	.15
155379CC	KRS-1273B	6	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.31	.26

♦ Tactile Switch Caps

10 piece minimum

Part No.	Mfr. Cross Ref. No.	Fig.	Description	Size (in.)	Material	For Use With	10	100	250
155389CC	KRS-CAP-A	10	Square	.47"L x .47"W x .16"H	Plastic	P/N 155379CC	\$.15	\$.11	\$.10
155408CC	KRS-CAP-B	11	Round	.50"Dia. x .25"H	Plastic	P/N 155379CC	.15	.13	.11

Other Manufacturers — Limited Great Deals

Part No.	Mfr. Cross Ref. No.*	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A*	B*			1	10	100	250
199726CC	EVQ11A04M	7	2	.24	.24	.14	.30	.20	—	20 @ 15	White	\$.27	\$.199	\$.176	\$.168
200361CC	EVQPB04K†	8	5	.24	.24	.14	.30	.17	.26	20 @ 15	Black	.26	.235	.199	.149
155256CC	KRS-3550-WH	5	2	.24	.14	.15	—	—	.27	50 @ 12	White	.35	.315	.236	.177
206341CC	KPT1107A	5	2	.24	.14	.15	—	—	.25	50 @ 12	White	.52	.468	.398	.298
202956CC	KSM06330	9	2	.24	.24	.15	.38	.11	.18	50 @ 24	Red	.35	.315	.268	.20

* Manufacturer may vary

† 200362CC/ 200361CC: with ground pin



SP5T Rotary Switch

- Panel mount • Fixed stop • 1/8" screwdriver slotted shaft • 0.06" solder terminals
- 36° angle of throw • Single pole, 5-positions • Contact resistance: 20mΩ max.
- Insulation resistance: 1,000MΩ minimum between mutually insulated parts
- Material: stainless steel shaft and detent contact springs; brass terminals (gold plated over nickel plate); zinc, cadmium plated bushing

SALE



New Lower Prices

Part No.	Product No.	Description	1	10	100
184727CC	50AB36-01-1-5-F	SP5T panel mount rotary switch	\$1.71 \$1.05	\$.93	\$.84

JAMECO ValuePro

Rotary Switches

- Contact rating: 30VDC @ 0.3A • Insulation resistance: 10MΩ min.
- Contact resistance: 30mΩ • Lug size: 0.07" • Mounting hole diameter: 3/8" • Layers: 1
- Material: solid brass bushings, slotted aluminum shafts, plated metal, phenolic contact wafer (except for P/N 101565CC – plastic casing) • Make before break • Solder lugs
- Compatible with Jameco rotary knobs P/N 102787CC and 104176CC, pg 133 • Panel mount

Quantity **SAVE**



101573CC

Includes: Washer and nut

Part No.	Mfr. Cross Ref. No.	Poles	Position	Shaft Size (L" x Dia.)	1	10	100
101531CC	RS0261	1	12	0.46 x 0.25	\$1.29	\$1.10	\$.82
101573CC	RS022	2	6	0.46 x 0.25	1.35	1.15	.90
101565CC	RS023	3	4	1.16 x 0.25	1.95	1.59	1.25
101557CC	RS024	4	3	0.46 x 0.25	1.09	.93	.69

JAMECO ValuePro

16-Button Numeric Keypad

- 4 x 4 matrix keypad
- Contact rating: 24VDC @ 20mA
- Life test: 1,000,000 life cycles per key
- 8-position solder pad
- Contact resistance: 200Ω max.
- Size: 3.0"L x 2.8"W x 0.6"H

Part No.	Description	1	10	100
169244CC	Numeric keypad	\$7.95	\$6.95	\$6.25

Quantity **SAVE**



B3F Series Miniature Tactile Key Switch

Miniature, low profile and easy mounting. Applications: audio, office & communications equipment, measuring instruments, TVs, VCRs, etc.



- Extended mechanical/electrical service life
- Flux-tight base structure allows automatic soldering of the key switch onto a PC board
- Lead spacing: A = 0.18"; B = 0.26"
- Operating force: general purpose 100g
- Dimensions: 4.3 mm x 6.5 mm

Part No.	Type	1	25	50	100
162886CC	B3F-1000	\$.45	\$.40	\$.36	\$.33

12-Button Telephone Keypads

- White plastic
- 8-pin .100" header
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Tactile type keypad
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H



153488CC

Part No.	Description	1	10	100
190561CC	Numeric keypad	\$8.75	\$7.45	\$5.59
153488CC	Alpha numeric keypad	9.49	8.55	7.69

16-Button Keypad Switch

- 1/2" button centers
- Flange mounted
- Top surface or sub-surface mounting
- Snap-dome contact provides positive feedback
- 4" x 4" grid
- Rating @ 24VDC: 10mA resistive
- Contact resistance: 10Ω maximum (compatible with MOS, TTL, and DTL)
- Voltage breakdown: 250VAC between mutually insulated parts
- Life expectancy: 3,000,000 operations per button



Part No.	Product No.	1	10	100
302025CC	86BB2-006	\$18.55	\$16.79	\$16.15

16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Fully sealed snap-dome contact
- For indoor or outdoor use
- Contact rating: 24VDC @ 10mA resistive
- Life test: 3,000,000 cycles per key
- Compatible with MOS, TTL and DTL (10Ω max.)
- Recommended connector: P/N 103190CC header and P/N 100765CC pin, pg 101
- Size (housing): 4.7"W x 1.7"H x 0.4"H



196171CC



152063CC

Part No.	Description	1	10	100
196171CC	2x8 matrix keypad	\$16.95	\$15.29	\$13.75
152063CC	4x4 matrix keypad	14.95	13.49	11.95
103190CC	Header housing (10-pin)	.42	.39	.36
100765CC	Header pin (10 per pack)	*	.11	.09



Potter & Brumfield Relays



- UL/CSA approved
- Industry standard termination for quick installation
- Contact arrangements from SPDT to 4PDT
- Wide range of coil voltage for industrial and commercial applications



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



Figure 7



Figure 8

Part No.	Product No.▲	Figure	Contact Form	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Mating Socket*		Pricing			
							Standard	DIN Rail	1	10	25	50
282247CC	K10P-11A15-120	1	DPDT	120VAC	3,900	11	27E488/489	27E895	\$6.99	\$6.49	\$6.09	\$5.42
282255CC	K10P-11D15-12	1	DPDT	12VDC	160	75	27E488/489	27E895	6.99	6.49	6.09	5.42
282263CC	K10P-11D15-24	1	DPDT	24VDC	650	37	27E488/489	27E895	5.99	5.69	5.50	5.29
282280CC	KHAU-17A11-24	2	4PDT	24VAC	160	52	27E166	27E894	5.45	5.29	5.17	4.77
282271CC	KHAU-17A11-120	2	4PDT	120VAC	3,900	11	27E166	27E894	6.29	5.99	5.81	5.37
282301CC	KHAU-17D11-12	2	4PDT	12VDC	160	100	27E166	27E894	5.19	4.90	4.85	4.60
282319CC	KHAU-17D12-24	2	4PDT	24VDC	650	52	27E166	27E894	5.59	5.39	5.17	4.77
282327CC	KHU-17A11-120▲	3	4PDT	120VAC	3,900	11	27E166	27E894	23.49	21.65	19.29	16.91
300943CC	KRPA-5AG-24	4	SPDT	24VAC	85	84	27E122	27E891	24.55	23.26	21.84	20.06
282431CC	KRPA-5AG-120	4	SPDT	120VAC	2,250	17.5	27E122	27E891	14.99	14.21	13.42	12.64
300951CC	KRPA-5AY-120	4	SPDT	120VAC	2,250	17.5	27E122	27E891	24.55	23.26	21.84	20.06
300960CC	KRPA-5DG-12	4	SPDT	12VDC	120	100	27E122	27E891	22.29	21.14	19.85	18.24
282440CC	KRPA-5DG-24▲	4	SPDT	24VDC	472	51	27E122	27E891	14.99	14.21	13.42	12.64
300986CC	KRPA-11AG-6	4	DPDT	6VAC	6	335	27E122	27E891	14.65	14.24	13.81	12.75
282335CC	KRPA-11AG-12▲	4	DPDT	12VAC	24	168	27E122	27E891	15.09	14.32	13.81	12.75
282351CC	KRPA-11AG-24	4	DPDT	24VAC	85	84	27E122	27E891	9.99	9.49	9.21	8.49
282343CC	KRPA-11AG-120	4	DPDT	120VAC	2,250	17.5	27E122	27E891	10.75	10.21	9.85	9.09
300994CC	KRPA-11AG-240	4	DPDT	240VAC	9,110	8.75	27E122	27E891	14.49	14.09	13.67	12.62
301006CC	KRPA-11AN-12	4	DPDT	12VAC	24	168	27E122	27E891	12.95	12.14	11.32	10.25
301014CC	KRPA-11AN-24	4	DPDT	24VAC	85	84	27E122	27E891	15.99	15.58	14.63	13.45
282360CC	KRPA-11AN-120▲	4	DPDT	120VAC	2,250	17.5	27E122	27E891	11.45	10.89	10.48	9.58
301022CC	KRPA-11AN-240	4	DPDT	240VAC	9,110	8.75	27E122	27E891	18.69	17.70	16.63	15.28
301031CC	KRPA-11AY-24	4	DPDT	24VAC	85	84	27E122	27E891	15.09	14.99	14.15	12.99
301049CC	KRPA-11AY-120	4	DPDT	120VAC	2,250	17.5	27E122	27E891	16.99	16.13	15.14	13.91
301057CC	KRPA-11DG-6	4	DPDT	6VDC	22	188	27E122	27E891	15.89	15.07	14.15	13.31
282378CC	KRPA-11DG-12	4	DPDT	12VDC	120	100	27E122	27E891	9.95	9.49	9.21	8.49
282386CC	KRPA-11DG-24	4	DPDT	24VDC	472	51	27E122	27E891	9.69	9.21	8.96	8.34
301065CC	KRPA-11DG-48	4	DPDT	48VDC	1,800	26.6	27E122	27E891	16.29	16.13	15.13	13.45
301073CC	KRPA-11DG-110	4	DPDT	110VDC	10,000	11.5	27E122	27E891	12.19	11.54	10.97	9.93
301081CC	KRPA-11DG-125	4	DPDT	125VDC	10,000	11.5	27E122	27E891	15.85	15.31	14.78	13.64
301090CC	KRPA-11DN-12	4	DPDT	12VDC	120	100	27E122	27E891	15.75	15.58	14.62	12.99
282394CC	KRPA-11DN-24▲	4	DPDT	24VDC	472	51	27E122	27E891	10.39	9.89	9.53	8.80
301102CC	KRPA-11DN-110	4	DPDT	110VDC	10,000	11.5	27E122	27E891	16.05	15.58	14.63	13.45
301111CC	KRPA-11DY-24	4	DPDT	24VDC	472	51	27E122	27E891	14.65	14.24	13.81	12.75
301145CC	KRPA-14AN-24	4	3PDT	24VAC	85	84	27E123	27E892	18.15	17.18	16.12	15.17
282415CC	KRPA-14AN-120▲	4	3PDT	120VAC	2,250	17.5	27E123	27E892	12.19	11.58	11.14	10.29
301153CC	KRPA-14AN-240	4	3PDT	240VAC	9,110	8.75	27E123	27E892	19.99	19.29	17.19	15.28
301129CC	KRPA-14AG-24	4	3PDT	24VAC	85	84	27E123	27E892	11.09	10.64	10.17	9.75
282407CC	KRPA-14AG-120▲	4	3PDT	120VAC	2,250	17.5	27E123	27E892	11.79	11.20	10.82	9.98
301137CC	KRPA-14AG-240	4	3PDT	240VAC	9,110	8.75	27E123	27E892	19.29	18.76	17.61	16.19
301161CC	KRPA-14AY-24	4	3PDT	24VAC	85	84	27E123	27E892	17.55	16.64	15.63	14.36
301170CC	KRPA-14AY-120	4	3PDT	120VAC	2,250	8.75	27E123	27E892	18.25	17.70	16.16	14.36
301188CC	KRPA-14DG-12	4	3PDT	12VDC	120	100	27E123	27E892	12.99	12.66	12.28	11.40
282423CC	KRPA-14DG-24▲	4	3PDT	24VDC	472	51	27E123	27E892	11.29	10.73	10.34	9.54
301196CC	KRPA-14DG-48	4	3PDT	48VDC	1,800	26.6	27E123	27E892	18.99	17.97	16.88	15.50
301209CC	KRPA-14DG-110	4	3PDT	110VDC	10,000	11.5	27E123	27E892	18.99	18.19	17.44	16.10
301217CC	KRPA-14DN-24	4	3PDT	24VDC	472	51	27E123	27E892	18.39	17.44	16.38	15.05
282458CC	KUHP-11A51-120▲	5	DPDT	120VAC	1,700	24	—	—	10.25	9.99	9.77	8.93
282466CC	KUL-11A15S-120	6	DPDT	120VAC	3,700	30	27E121	27E893	32.29	31.23	27.84	26.19
282474CC	KUP-14A15-120	7	3PDT	120VAC	1,700	24	27E121	27E893	9.69	9.21	8.96	8.59
282482CC	KUP-14A35-120▲	7	3PDT	120VAC	1,700	24	27E121	27E893	11.65	11.07	10.26	9.59
282503CC	KUP-14D15-24	7	3PDT	24VDC	472	51	27E121	27E893	10.39	9.87	8.89	7.90
282491CC	KUP-14D15-110	7	3PDT	110VDC	10,000	11	27E121	27E893	13.09	12.44	11.63	9.78
282538CC	R10-E1X4-V185	8	4PDT	12VDC	185	60	27E163	27E461	14.55	13.82	12.86	12.39

* For sockets see page 126

Relays and Relay Sockets

P&B - The Defacto Standard in Relays

Color Code Legend
New Sale Qty. Save

▲ Marked products ship from a separate warehouse and may not ship same day.
Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

PB

Relay Sockets



282167CC



282183CC



282175CC



282191CC

Relay Sockets for KRPA Series (Octal)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282132CC	27E122	DPDT	8	Standard	\$3.59	\$3.49	\$3.45	\$3.16
282159CC	27E891	DPDT	8	DIN Rail	4.49	4.27	4.10	3.76
282141CC	27E123	3PDT	11	Standard	4.89	4.65	4.24	3.77
282167CC	27E892	3PDT	11	DIN Rail	7.15	6.79	6.19	5.50

Relay Socket for KHAU Series

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282183CC	27E894	4PDT	14	DIN Rail	\$7.15	\$6.79	\$6.50	\$5.78

Relay Sockets for KUP Series (11-blade square)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282124CC	27E121▲	3PDT	11	Standard	\$6.29	\$5.99	\$5.47	\$5.00
282175CC	27E893	3PDT	11	DIN Rail	6.89	6.55	6.38	5.80

Relay Socket for K10 Series (8-blade square)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282191CC	27E895	DPDT	8	DIN Rail	\$5.05	\$4.80	\$4.38	\$3.90

DIN Rail Mount Socket and Track Mounting System

For use with KHAU, KUP, and K10 series DIN relay sockets

282204CC: End clip insulator for preventing sockets from moving sideways or sliding off track

282108CC: Steel mounting clip with #6-32 screw (7/16")



Part No.	Product No.	Description	1	10	25	50
282204CC	40G432	Mounting plastic insulator	\$5.59	\$5.57	\$5.55	\$4.46
282108CC	24A071	Steel mounting clip	.49	.46	.40	.35
282116CC	24A110	36" mounting track	9.39	8.92	8.54	6.93

S89R Series Bistable, Impulse Relay

- Contact rating: 15A • Nominal power: 9W@25°C
- Contact life: 10 million operations; 50,000 mechanical operation
- Initial breakdown voltage: 1,500Vrms, 60Hz
- Dust cover with octal plug-in base • Current: 75mA

Part No.	Product No.	Voltage	Resistance	1	10	25	50
282546CC	S89R11APP1-120▲	120VAC	260Ω	\$32.79	\$32.14	\$27.39	\$27.09

VF4 Series 40A General Purpose Plug-In Relay

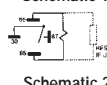
- Expected life: 10 million operations; 100,000 mechanical operations @ 40A • SPDT
- Dielectric strength: 500Vrms between contact and coil
- Initial operate time: 7ms typical with rated coil voltage applied
- 0.250" quick connected and printed circuit terminals

Part No.	Product No.	Voltage	Resistance	1	10	25	50
282554CC	VF4-45F11▲	12VDC	90Ω	\$3.19	\$3.03	\$2.78	\$2.48

Potter & Brumfield Type Plastic Enclosed Construction Relays

VF4 Type

- Dielectric strength: 500VDC (between contact & coil)
- Operating temperature: -35°C to +85°C
- Contact current: 40A • Terminal type: quick connect
- Coil voltage: 12VDC except P/N 171521CC (5VDC)
- Normally open (NO), normally closed (NC)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



171432CC (Fig. 1)



171441CC (Fig. 2)



171459CC (Fig. 3)

Part No.	Mfr. Cross Ref. No.	P&B Cross Reference	Fig.	Contact Form	Coil Ohms	Contact Schematic	Contact Voltage	Pins	Pricing			
									1	10	50	100
171459CC	LD1A-12F	VF4-81F11S01	3	SPST-NO	78	2	14VDC	4	\$1.89	\$1.75	\$1.55	\$1.29
171441CC	961A-1A12D	VF4-11F11	2	SPST-NO	90	2	14VDC	4	2.35	2.20	2.14	2.09
171521CC	LD5F	VF4-45D11	1	SPDT	14	1	5VDC	5	1.69	1.35	1.05	.71
148582CC	LD12F	VF4-85F11	1	SPDT	78	1	12VDC	5	2.49	2.25	1.95	1.75
171432CC	961A-1C-12DM	VF4-81F11	1	SPDT	90	1	12VDC	5	2.99	2.69	2.25	1.65

PB

W58 Series Thermal Circuit Breakers

- Max. operating voltage: 50VDC; 250VAC 50/60Hz
- Interrupt capacity: 2,000A @ 50VDC; 1,000A @ 250VAC 50/60Hz
- Endurance cycling: >1,000 operations @ 200% of rating
- Dielectric strength: >1,500Vrms
- Push button to reset breaker



282597CC

Part No.	Product No.	Amp	Resistance	1	10	25	50
282562CC	W58-XB1A4A-10	10	0.014	\$2.99	\$2.95	\$2.89	\$2.69
282571CC	W58-XB1A4A-15	15	0.010	3.19	3.03	2.97	2.81
282589CC	W58-XB1A4A-20	20	0.006	3.19	3.03	2.97	2.81
282597CC	W58-XB1A4A-30	30	—	3.19	3.03	2.97	2.81

CNS Series Multifunction Time Delay Relays

- DPDT • Rating: 10A @ 30VDC or 277VAC
- Electrical life: 100,000 operations at rated load
- Dielectric strength: 1,000Vrms, 60Hz between open contacts; 1,500Vrms, 60Hz between all other conductors

Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 25VAC/VDC



282212CC

Part No.	Product No.	Voltage	Timing Functions	Pins	1	10	25	50
282212CC	CNS-35-92	24-240VAC/VDC	4	8	\$62.89	\$59.75	\$55.71	\$52.87
282211CC	CNS-35-96▲	24-240VAC/VDC	8	11	71.65	68.07	66.42	66.14

PB

CNT Series Multifunction, Digital Time Delay Relay/Counter

- Digital adjustment via thumbwheel switches
- Maximum count: 1 to 999; 10 to 9,990; 100 to 99,900
- Maximum count rate: 100 counts per second
- Rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 100,000 operations min. at rated load
- 11-pin octal style plug • DPDT
- Dielectric strength: 1,000Vrms, 60Hz between open contacts; 1,500Vrms between all other contacts



Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 24VAC/VDC

Part No.	Product No.	Voltage	1	10	25	50
282239CC	CNT-35-96	24-240VAC/VDC	\$82.95	\$81.99	\$81.04	\$78.50

PB

PRD Series Heavy Duty Open Relay

- SPDT • Expected life: 100,000 operations at rated load
- Contact rating: 25A @ 277VAC • Current: 85mA
- Nominal power: -9.8W @ 25°C
- Auxiliary snap action switch rating: 5A @ 120VAC, 60Hz
- Initial breakdown voltage: 2,000Vrms min. between all elements and ground



Part No.	Product No.	Voltage	Resistance	1	10	25	50
282520CC	PRD-5AY0-120▲	120VAC	290Ω	\$19.79	\$18.24	\$16.25	\$14.19

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

Relay Socket with Coil Diode

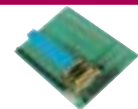
VF4 Type

- For use with P/N 148582CC, left
- 12 AWG: 2 black & 1 blue wire; 18 AWG: 1 black & 1 red wire
- Contact voltage/current: 12V/20A
- Diode coil suppression • 7.5" wire



Part No.	Ref. No.	1	10	50	100
170624CC	RSD03	\$2.35	\$2.15	\$1.89	\$1.55

See page 238
Universal Relay Card.



Small High-Current PC Mount Relays

An inexpensive means of switching loads up to 30 amps. While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.

- Meets UL class F insulation standard
- Mechanical life expectancy: 10 million operations
- Electrical life expectancy: 100,000 operations at rated loads
- Dielectric strength: 1500Vrms (between contact and coil)

104926CC: Open frame relay

129349CC: Immersion cleanable, plastic sealed case

144186CC: For use with universal relay card (P/N 128910CC, pg 238)



Fig. 1

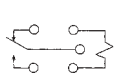


Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Part No.	Product No.	Manufacturer	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing			
												1	10	50	100
145752CC	T90S1D12-12*	Magnecraft	T90S1D12-12	1A	SPST	12VDC	155	240VAC	30A	5	1.2 x 1.0 x .77	\$2.45	\$2.10	\$1.85	\$1.49
195864CC	RP838012	Schrack	—	5E	SPST	12VDC	270	250VAC	12A	4	1.1 x .48 x 1.0	1.35	1.09	.81	.57
134949CC	FKD130PSC5V	Rayex	T90S5D12-5	1A	SPDT	5VDC	27	240VAC/28VDC	20A	6	1.3 x 1.1 x .80	2.49	2.15	1.93	1.65
174449CC	LU-5	Rayex	T81H5D215	3B	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	1.79	1.66	1.55	1.49
187151CC	G5LE-1DC5	Omron	—	7G	SPDT	5VDC	63	120VAC/30VDC	10A/8A	5	.90 x .65 x .75	1.49	1.30	1.15	1.15
187240CC	G5V-1-DC5	Omron	—	8H	SPDT	5VDC	166.7	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	2.05	1.79	1.59	1.59
104926CC	733SPDT12VDC*	Song Chuan	T90N5D12-12	1D	SPDT	12VDC	155	240VAC/28VDC	20A/10A	6	1.2 x .90 x .63	1.85	1.69	1.49	1.27
129349CC	832-IC-S	Song Chuan	T90S5D12-12	1A	SPDT	12VDC	155	277VAC/28VDC	20A/10A	6	1.2 x 1.0 x .75	2.15	1.90	1.69	1.39
186669CC	G2R-14-DC12	Omron	—	9I	SPDT	12VDC	275	250VAC/30VDC	10A	5	1.2 x .51 x 1.0	2.99	2.85	2.69	2.55
172937CC	JS1-12V	Nais (Aromat)	T72M5D121-12	6F	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	1.09	.99	.89	.75
144186CC	JZC-22F	Velleman	VR15M121C	2B	SPDT	12VDC	337	120VAC/28VDC	15A	5	.80 x .64 x .80	3.79	3.39	3.05	2.75
174431CC	LEG12F	Rayex	T7CS5D12	2B	SPDT	12VDC	400	120VAC/24VDC	15A	5	.76 x .62 x .60	1.49	1.29	1.19	1.09
184461CC	G5V-1-DC12	Omron	—	8H	SPDT	12VDC	960	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	2.25	1.79	1.58	1.42
187282CC	G6A-234PSTUSDC5	Omron	—	10J	DPDT	5VDC	125	125VAC/30VDC	.3A/1A	8	.80 x .33 x .40	3.95	3.63	3.33	3.07
174377CC	LM2-12D	Rayex	RKA5DZ12	4C	DPDT	12VDC	270	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	2.49	2.25	1.95	1.75
187258CC	G5V-2-DC12	Omron	—	11K	DPDT	12VDC	288	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	2.49	2.28	2.02	1.82
200740CC	G5V-2-H1-24	Omron	—	11K	DPDT	24VDC	2800	125VAC/24VDC	.5A/1A	8	.81 x .40 x .45	2.59	2.35	1.89	1.39
215909CC	RKA-7DZ-12	P & B	—	12I	DPST-NO	12VDC	270	250VAC/24VDC	5A/5A	6	1.16 x .57 x 1.05	2.29	1.95	1.69	1.39

*Manufacturer may vary

General Purpose Relays

LB2 Series

- Contact rating: 240VAC/30VDC @ 12A • DPDT
- Mechanical life: 10,000,000 operations • 8-pin
- Electrical life: 100,000 operations min. at rated load

Part No.	Product No.	P & B Cross Ref.	Coil Voltage	1	10	50	100
172718CC	LB2-12DS	K10-11D15-12	12VDC	\$4.99	\$4.49	\$3.99	\$3.59
175564CC	LB2-24DS	K10-11D15-24	24VDC	5.99	5.49	4.93	4.49
175572CC	LB2-110AS	K10-11A15-120	110VAC	6.25	5.49	4.99	4.39

LB4H Series

- Insulation resistance: 1,500MΩ @ 500VDC
- Mechanical life: 10,000,000 operations • 4PDT
- Contact rating: 240VAC/30VDC @ 5A • 14-pin
- Electrical life: 100,000 operations min. at rated load

Part No.	Product No.	P & B Cross Ref.	Coil Voltage	1	10	25	50
291506CC	LB4H-12DS	KHAU-17D12-12	12VDC	\$4.45	\$4.33	\$4.20	\$4.03
175601CC	LB4H-24DS	KHAU-17D12-24	24VDC	5.09	4.93	4.77	4.36
175610CC	LB4H-110AS	KHAU-17A12-120	110VAC	4.69	4.58	4.47	4.24

Relay Socket

- DIN rail snap socket for LB2 & LB4H relays

Part No.	Product No.	P & B Cross Ref.	Pins	1	10	50
175530CC	PTF-08A-A	27E895	8	\$5.95	\$5.39	\$4.85
175556CC	PYF-14A-A	27E894	14	3.95	3.49	2.95

KHAU Type Relay

- Insulation resistance: 1,500MΩ @ 500VDC • 4PDT • 14-pin
- Life: (mechanical) 10,000,000 operations; (electrical) 100,000 operations min. at rated load • Contact rating: 220VAC/24VDC @ 5A

Part No.	Product No.	P & B Cross Ref.	Coil Voltage	1	10	25	50
183011CC	GM4PDT12DF	KHAU-17D12-12	12VDC	\$6.95	\$6.38	\$6.04	\$4.99

Beta Electric General Purpose Relays

Pin Type Terminals

- DPDT • 8-pin octal style plug
- Contact rating: 120/240VAC, 28VDC @ 10A
- Ambient operating temp.: -10°C to +50°C
- Size: 1.4"L x 1.4"W x 2.7"H

BTA1 Series Relays

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139766CC	BTA1-2C-12VDC	R02-11D10-12	12VDC	\$9.49	\$8.55	\$7.69
139740CC	BTA1-2C-120VAC	R02-11A10-120	120VAC	9.95	8.79	7.99

BTA1 Series Sockets

Part No.	Voltage	Current	Pins	Dimensions	1	10	50
141145CC	250VAC	20 amps	8	2.0"L x 1.6"W x 0.8"H	\$3.99	\$3.65	\$2.99
141153CC	250VAC	20 amps	11	2.0"L x 1.7"W x 1.2"H	5.19	4.41	3.29

BTA2 Series Quick Connect Blade Terminal

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accepts quick-connect receptacles or direct soldering.

- Contact rating: 120VAC/28VDC @ 13A; 240VAC @ 10A
- Ambient temperature operating: -30°C to +50°C
- Size: 1.5"L x 1.4"W x 2.2"H • 3PDT • 11-pin

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139854CC	BTA2-3C-24VDC	R10-14D10-24	24VDC	\$8.69	\$8.63	\$8.39

BTA2 Series Socket

Part No.	Voltage	Current	Pins	Dimensions	1	10	50
141161CC	250VAC	20 amps	11	3.0"L x 1.4"W x 1.0"H	\$3.95	\$3.56	\$3.20

DC/AC and DC/DC Solid State Relays

- Screw terminal with hardware
- Photo isolation
- Metal mounting base
- Manufacturer may vary
- Zero crossing



176698CC
(Fig. 1)



153058CC
(Fig. 2)



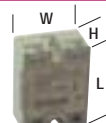
192815CC
(Fig. 3)



162341CC
(Fig. 4)



176735CC
(Fig. 5)



187004CC
(Fig. 6)



164996CC
(Fig. 7)



127790CC
(Fig. 8)

Part No.	Product No.	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing			
													1	10	50	100
Solid State Relays DC/AC Type																
153058CC	KSD203AC2	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	—	1.4 x 0.3 x 0.9	\$9.95	\$8.95	\$7.95	\$7.25
162341CC	ESR51024-010	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	15.95	14.39	12.95	11.65
162368CC	ESR51024-025	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	21.95	19.79	17.79	16.05
162405CC	ESR51024-040	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	22.99	20.69	18.69	16.79
105081CC	615-8500	Teledyne	3-32VDC	DC/AC	SPST	250VAC	10A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	15.99	14.39	12.99	11.69
192815CC	KSD240AC8	COSMO	4-32VDC	DC/AC	SPST	250VDC	40A	4	3	Screw Terminal	—	1.8 x 0.6 x 2.3	17.15	15.58	14.17	13.75
175214CC	KB20C02A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 1.5	5.95	5.69	5.32	5.05
127790CC	D2W202F	Crydom	3-32VDC	DC/AC	SPST	280VAC	2A	4	8	Solder Lead	UL/CSA	1.7 x 0.4 x 1.3	7.19	6.59	6.19	6.19
176698CC	KB20C06A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	9.99	8.99	7.99	7.19
176719CC	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	5	Screw Terminal	—	1.7 x 0.9 x 2.3	19.99	17.99	16.19	14.59
176735CC	KD20C75AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	5	Screw Terminal	—	1.7 x 0.9 x 2.3	39.95	35.99	32.39	29.15
204441CC	TD2420Q	Crydom	4-15VDC	DC/AC	4PST	280VAC	20A	13	—	Solder Lead	UL/CSA	2.3 x 1.8 x 0.9	56.95	51.25	43.59	32.69
186992CC	G3NA-210B-DC5-24	Omron	5-24VDC	DC/AC	—	240VAC	10A	4	6	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	14.29	13.55	12.89	12.25
187004CC	G3NA-220B-DC5-24	Omron	5-24VDC	DC/AC	—	240VAC	20A	4	6	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	19.95	17.95	15.95	13.95
164988CC	S101S02	Sharp	1.2VDC@20mA	DC/AC	—	125VAC	1.5A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	3.95	3.49	2.95	2.25
164996CC	S202TA1	Sharp	1.2VDC@20mA	DC/AC	—	200VAC	2.0A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	4.95	4.49	4.05	3.65
Solid State Relay DC/DC Type																
172591CC	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	\$9.95	\$8.95	\$7.95	\$6.95
175222CC	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	1	Solder Lead	—	1.5 x 0.3 x 0.9	11.95	11.25	10.25	9.22
176647CC	KG1005D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	5A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	26.99	24.29	21.79	19.59
176655CC	KG1010D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	10A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	29.99	26.99	24.29	21.89

DIP Relays

- Logic control levels
- Long life with reliable operation
- Moisture resistant
- Compatible with IC sockets
- Compact design/construction
- Excellent for PCB applications



106462CC



99901CC



206543CC

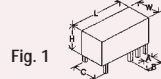


Fig. 1



Fig. 2

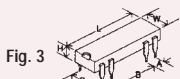
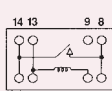
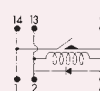


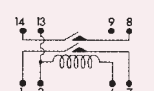
Fig. 3



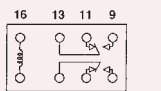
Schematic 1



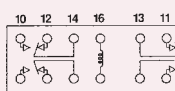
Schematic 2



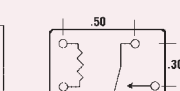
Schematic 3



Schematic 4



Schematic 5



Schematic 6

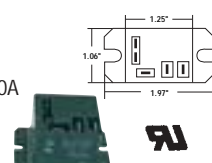
Part No.	Mfr. Cross Reference No.	Manufacturer	Contact Schem.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Fig.	Size L x W x H (in.)	Leads A x B x C (in.)	Pricing			
														1	10	50	100
106462CC	201A05	Excel Cell Elect.	1	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	\$2.15	\$1.81	\$1.52	\$1.25
138430CC	2D1A05	Excel Cell Elect.	2	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.29	1.95	1.65	1.34
215896CC	OJE-SS-109LMF	OEG	6	SBT-NO	9VDC	400	250VAC/30VDC	3A/3A	4	—	1	.71 x .39 x .57	.50 x .60 x .30	2.29	1.95	1.69	1.39
106471CC	201A12	Excel Cell Elect.	1	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	2.29	1.95	1.65	1.39
138448CC	2D1A1200	Excel Cell Elect.	2	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.25	1.95	1.75	1.49
138456CC	202A05	Excel Cell Elect.	3	DPST-NO	5VDC	140	100VDC	0.5A	8	37161	3	.77 x .30 x .28	.10 x .40 x .30	3.49	3.15	2.69	2.19
173913CC	AZ831-2C-5DSE	American Zettler	4	DPDT	5VDC	125	125VAC/100VDC	.5A/1.25A	8	37401	1	.79 x .38 x .44	.18 x .28 x .29	2.35	2.15	1.69	1.25
139977CC	RSB5S	Shin Mei	4	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372	1	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95	1.75
99338CC	LM12C00	Clare	4	DPDT	6VDC	71	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.25	1.79	1.35
99311CC	DS2Y-S-DC12V*	Aromat (NAIS)	4	DPDT	12VDC	720	110VAC/30VDC	.3A/1A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.31	2.05	1.75
99901CC	LX200D00	Clare	4	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .30	.20 x .40 x .30	6.95	6.25	5.63	4.49
99320CC	LM12E00*	NEC	4	DPDT	24VDC	1110	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.95	2.69	2.39	2.15
136549CC	DS4E-M-DC5V*	Aromat	5	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	5.49	4.95	4.45	4.05
176313CC	DS4E-M-DC12V	Aromat	5	4PDT	12VDC	360	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	6.95	6.29	5.29	4.39
206543CC	DS4E-S-DC5V-1C-N137	Aromat	5	4PDT	5VDC	125	250VAC/220VDC	2A	14	112299	2	1.40 x .40 x .42	.20 x .30 x .30	3.79	3.45	3.15	2.85

*Manufacturer may vary

T9A Series Relay

Low Cost PC Board or Panel Mount Only

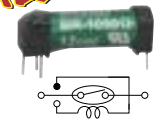
- Contact form: SPDT
- Contact current: 20A/10A
- Coil voltage: 12VDC
- 5-pin
- Contact volt.: 240VAC/28VDC
- Coil: 155Ω
- Terminal type: 0.1" disconnect (2); 0.25" disconnect (3)



Part No.	Cross Ref. No.	P & B Cross Ref.	Dimensions (LxWxH)	1	10	50	100
137357CC	953-IC-12DM	T9ASD52-12	2.0" x 1.6" x 1.8"	\$2.55	\$2.45	\$2.19	\$1.75

Reed Type Relay

SALE



- Manufacturer: Bestar
- Contact form: SPST-NO
- Coil voltage: 12VDC
- Coil: 1050Ω
- Contact voltage: 120VAC/60VDC
- Contact current: 0.1A
- Dielectric strength: 1500VDC (between contact and coil)
- 4-pin
- Operating temperature: -30°C to +60°C
- Terminal type: PCB solder

Part No.	Mfr. Cross Ref. No.	Dimensions	1	10	50	100
111448CC	RC108T	1.0"L x .37"W x .38"H	\$ 35	\$ 32	\$ 29	\$ 26

24VDC Liquid Level Sensors

Combine the control box and sensor to activate a water valve. When sensor is triggered by a tank in either full or empty condition, it will trigger an output status change.

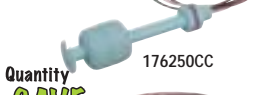


176241CC: Control Box

- Input voltage: 24VDC @ 10A
- Output voltage: 24VDC @ 10A
- Size: 2.5"L x 1.8"W x 1.2"H

176250CC (Empty)

- Diameter: 1.0"
- Overall Length: 3.9"
- Travel Distance: 2.0"



176268CC (Full)

- Diameter: 1.1"
- Overall Length: 2.6"
- Travel Distance: .72"

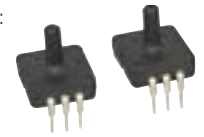


Part No.	Description	1	10	25
176241CC	Control box	\$8.15	\$7.41	\$6.73
176250CC	Sensor empty type	9.95	8.95	7.95
176268CC	Sensor full type	11.45	9.75	7.29



-1.1 to 2.5 PSI Pressure Sensor

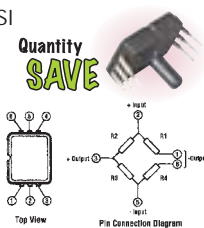
- Measurable pressure range: -1.1 to 2.5 PSI
- Maximum load pressure: twice of rated pressure
- Operating voltage: 5V @ <10mA
- Maximum excitation voltage: 8V
- Pressure type: gauge pressure • Volt-level output
- Pressure media: non-corrosive gas
- On-chip amplification and temp. compensations
- Pre-calibration of offset voltage and span
- 1/8" diameter tubing is applicable
- Size: .55"L x .47"W x .20"H



Part No.	Product No.	1	10	100
196103CC	XFPN-025-KPGRNW1	\$24.95	\$21.25	\$15.95

Servoflo 0 to 7 PSI Pressure Sensor

- Max. load pressure: 10.5 PSI
- Input excitation: 1.5mA
- Span output: 60-140mV
- Bridge resistance: 5kΩ ±1kΩ
- Accuracy: ±5% full scale
- High output, accuracy and stability • Low noise
- 1/8" diameter tubing is applicable
- Size: 0.5"L x 0.5"W x 0.2"H



Part No.	Product No.	1	10	100
163731CC	FPM07PG	\$11.95	\$10.19	\$7.65

0 to 1.45 PSI Pressure Sensor

- Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- Maximum pressure (P_{MAX}): 75kPa (10.875 PSI)
- Operating volt. (typical): 3VDC @ 6mA
- Applications: air movement control, level indicators, leak detection, robotics and industrial controls
- 1/8" diameter tubing applicable
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)



Part No.	Product No.	1	10	100
218827CC	MPX10GS	\$8.99	\$7.99	\$7.19

GORDOS-Type Digital I/O Module

- Industry standard package and pinout
- High immunity to false operation
- 4000Vrms optical isolation
- Continuous duty
- Color coded by function
- Capacitance: 8pF typical (input/output)



Quantity
SAVE



Part No.	Mfr. Cross Ref. No.	Description	Input Voltage	Output Voltage	Pricing		
					1	10	50
184541CC	ODC-5	DC output (red)	5VDC	3 to 60VDC @ 3A	\$7.29	\$7.10	\$7.00

ODC Series Input/Output Module Relay

- Switch form: SPST-NO
- Resistance: 250Ω
- Isolation: 4,000Vrms, 60Hz
- Capacitance: 8pF typical (input to output)



Part No.	Mfr. Cross Ref. No.	Description	Input Voltage	Output Voltage	Pricing			
					1	10	25	50
282511CC	ODC-5	DC output (red)	5VDC	3 to 60VDC @ 3A	\$9.25	\$8.99	\$8.85	\$8.06



12VDC Inductive Proximity Switch Sensors

Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Current consumption: 10mA max.
- Switching frequency: 1.5kHz
- Sensing target: inductive type – magnetic metal
- Sensing distance: ±10% (tin)
- Short circuit protected • LED status indicator
- Fast response • 6' long cable • Pre-tinned pigtail

155547CC
(17mm)



167020CC (12mm)



248858CC (12mm)



155571CC (18mm)



Part No.	Product No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Size (L" x W" x H")	Mounting Hole (in.)	Pricing		
							1	10	25
155547CC	S18-05N-1	NPN	0-4.0mm	17 x 17 x 1	1.4 x 1.4 x 0.7	0.112	\$9.95	\$8.95	\$7.95
167020CC	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	20.65	18.61	16.75
248858CC	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	19.99	17.99	15.99
155571CC	TS18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.6"L x 0.70"Dia.	0.70	24.95	22.46	20.21

Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz ±1.0kHz
- Aluminum case



136653CC:

Transmit/Receive Set

- Capacitance: 2000pF ±30%
- Case size: 0.47"H x 0.62" Dia.
- Transmitter: bandwidth 4.0kHz/112dB, sound pressure level 119dB/40±1.0kHz
- Lead length/spacing: 0.39"
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB/40±1.0kHz (0dB vs 1V pbar) R=3.9kΩ

136653CC

139491CC:

Transmit/Receive Set

- Capacitance: 2000pF ±20%
- Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz/100dB, sound pressure level 112dB/40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB/40 ±1.0kHz (0dB vs 1V pbar) R=3.9kΩ
- Case size: 0.30"H x 0.43" Dia.



139491CC

Part No.	Mfr. Cross Ref. No.	1	10	50
136653CC	40TR16F	\$6.95	\$6.29	\$5.65
139491CC	40TR12B	6.95	6.29	5.65

Latched Hall Effect Sensor

- SP (south pole): on
- NP (north pole): off
- Supply voltage: 20Vcc
- Supply current: 4mA
- Output current: 20mA
- Max. operating point: ≤ 130
- Max. release point (gauss): ≤ 130

Part No.	Mfr. Cross Ref. No.	1	10	100	1000
174043CC	HI-300	\$0.95	\$0.86	\$0.77	\$0.59



Vibration/Tilt Switch Sensor

Detects motion or vibration when the switch is mounted such that its main axis is near to the horizontal.

- Contact form: SPDT
- Maximum contact load: 24VDC/115VAC @ 0.5A
- Typical contact resistance: 1Ω (measured at 5VDC @ 0.01A with switch tilted 45° beyond operating point)
- Tilt: one plane only; ±10 degrees included angle
- Minimum operating temperature: -37°C



Part No.	Mfr. Cross Ref. No.	1	10	100
235926CC	Series 3004	\$1.49	\$1.25	\$1.15

Even lower OEM pricing for larger orders!

Corporate Customers

Call 1-800-831-4242 for details today.

1.2" (30mm) PCB Mountable Speaker

- Round frame design
- Mylar diaphragm
- Frequency range: 700 – 5000Hz
- Nominal input: 0.15W; max. input: 0.2W
- Ideal for PC board mounting
- Impedance: 8Ω
- Output SPL: 82 dB
- Pin spacing: 15mm



For speaker cables and hookup wire, see page 75.



Part No.	Mfr. Cross Ref. No.	Description	Dimensions	1	10	100
135722CC	PCM415	Solder leads	1.2"Dia. x 0.5"D	\$2.15	\$1.79	\$1.59

Round Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Part Number	Mfr. Cross Ref. No.	Dimensions (Dia." x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
135589CC	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	\$1.59	\$1.33	\$1.09
308267CC	GA0501M	2.0 x 0.8	0.25	0.5	8	85	500 – 7800	0.9 x 0.4	1.99	1.79	1.65
10840CC	FE201	2.2 x 0.7	0.2	0.4	8	88	400 – 4500	1.3 x 0.4	1.59	1.35	.99
177130CC	57RF07	2.2 x 0.8	0.5	0.9	45	88	500 – 8000	1.6 x 0.5	.54	.49	.43



135589CC Side



135589CC Back

For speaker wire, see page 78

Square Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Part Number	Mfr. Cross Ref. No.	Dimensions (Dia." x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
135693CC	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 – 6000	1.3 x 0.5	\$1.59	\$1.45	\$1.29
249463CC	66SF25	2.6 x 0.8	—	0.5	25	10	320 – 4000	1.3 x 0.5	2.49	2.09	1.59
31958CC	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 – 8000	1.3 x 0.5	2.25	1.99	1.79
99995CC	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	2.49	2.25	1.99



99995CC Side



99995CC Back

Flat-Magnet, Square Piezo Speakers

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

Part Number	Mfr. Cross Ref. No.	Dimensions (Dia." x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
34024CC	AZ30S	1.2 x 0.2	0.4	0.8	8	70	1300 – 8000	1.2 x 0.1	\$1.69	\$1.52	\$1.35
76030CC	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 – 6000	1.6 x 0.1	1.95	1.75	1.49



34024CC Side



34024CC Back

Alnico Speakers

- For computer case use
- Pre-tinned solder lugs
- Paper diaphragm
- Large magnet
- Wide frequency response
- Impedance: 8Ω

Part Number	Mfr. Cross Ref. No.	Fig.	Dimensions (Dia." x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing		
				Nom (W)	Max (W)				1	10	100
88410CC	A0200	1	2.0 x 0.8	0.2	0.4	87	430 – 4500	0.5 x 0.4	\$1.49	\$1.29	\$1.19
135765CC	RA2425	1	2.2 x 0.8	0.25	0.5	87	400 – 4000	0.5 x 0.4	1.59	1.35	.99
111587CC	B0102	2	1.7 x 0.6	0.1	0.3	83	500 – 5500	0.5 x 0.4	2.09	1.69	1.39
135811CC	A1527C02	3	1.6 x 2.8 x 1.2	2.0	5.0	82	450 – 20000	0.5 x 0.5	2.95	2.49	2.25

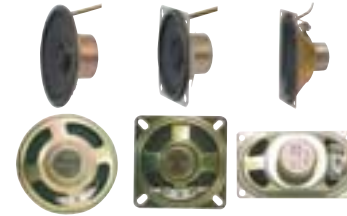


Fig. 1

Fig. 2

Fig. 3

Micro Speakers

- Impedance: 8Ω

Part Number	Mfr. Cross Ref. No.	Fig.	Dimensions (Dia." x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia." x H")	Pricing		
				Nom (W)	Max (W)				1	10	100
307820CC	GC0201M	1	1.75 x 0.38	0.1	0.2	78	600 – 8000	0.67 x 0.13	\$1.39	\$1.25	\$1.19
307871CC	GC0401M	1	1.57 x 0.67	0.2	0.3	80	600 – 8000	0.71 x 0.43	2.89	2.59	2.49
307846CC	GF0271M	1	1.06 x 0.30	0.1	0.2	82	750 – 3500	0.63 x 0.10	4.25	3.45	3.25
307854CC	GC0251KP*	2	1.0L x 0.55W	1.0	1.5	80	750 – 3500	0.43 x 0.08	1.85	1.75	1.65

* Rectangular micro speaker



Fig. 1

Fig. 2

Microphone Cartridges

Omni-directional Electret Condenser Microphone Cartridges

Applications:

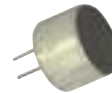
- Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Modems for computers
- Used for recording, testing, and monitoring



116505CC



160979CC



136573CC



196488CC



140986CC

Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	Pricing			
												1	10	100	1000
116505CC	WM-54PC	-44 ±2dB	>2.2kΩ	20-16,000	10V	2.5V	0.6mA	-3dB @ 2V	>60dB	PC pin leads	.20" x .38"	\$.69	\$.62	\$.50	\$.33
160979CC	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	.72	.65	.52	.35
136573CC	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.53	.48	.43	.39
196488CC	JL-061C	-58 0dB	2kΩ	20-20,000	10V	2.0V	0.04mA	-3dB @ 1.5V	>55dB	Solder pad	.10" x .24"	1.29	.99	.89	.79
140986CC	CRM919	-64 ±3dB	1kΩ ±30%	20-10,000	12V	3.0V	0.8mA	-3dB @ 3V	>40dB	Lead wires	.90" x .39"	1.49	1.14	1.05	.89

Buzzers and Sonic Transducers

Magnetic Transducers

• Applied voltage: 1/2 duty, square wave

Part Number	Fig.	Operating Volt. (Vp-p/mA)	Voltage Range (Vp-p)	Frequency (Hz)	Sound (dB)	Dimensions	Pricing			
							1	10	100	1000
138721CC	1	1.5/10	1 - 2	2048	80	.32"H x .46"Dia.	\$1.49	\$1.35	\$1.09	\$.79
207917CC	2	1.5/30	1 - 2	2048	75	.22"H x .47"Dia.	1.45	1.16	.87	.61
207909CC	2	3.6/40	1 - 4	1980	70	.22"H x .47"Dia.	.99	.89	.71	.53
138739CC	1	5/40	3 - 8	2400	85	.35"H x .46"Dia.	1.49	1.29	.99	.89
106500CC	1	5/40	3 - 8	2400	85	.40"H x .48"Dia.	1.49	1.29	.99	.79
207933CC	3	5/100	4 - 8	3100	85	.28"H x .38"Dia.	.66	.60	.55	.50
207950CC	4	5/100	4 - 8	3100	85	.22"H x .35"Dia.	.81	.74	.67	.61

Magnetic Buzzers

Part Number	Fig.	Operating Volt. (VDC/mA)	Voltage Range (VDC)	Frequency (Hz)	Sound (dB)	Dimensions	Pricing			
							1	10	100	1000
207984CC	5	1.5/30	1.25 - 2	2300	75	.47"H x .38"Dia.	\$2.99	\$2.69	\$2.45	\$2.15
76064CC	5	5/30	4 - 7	2300	85	.35"H x .46"Dia.	2.99	2.69	2.45	2.19
207976CC	5	12/30	8 - 15	2300	85	.47"H x .38"Dia.	2.49	2.19	1.99	1.69

Piezo Buzzers

196357CC	5	12/5.8	3 - 16	4000	86	.30"H x .54"Dia.	\$2.69	\$2.45	\$1.95	1.45
138712CC	5	12/7	3 - 16	4000	80	.30"H x .54"Dia.	2.49	2.25	1.79	1.35
207896CC	6*	12/120	6 - 15	2600/3100	105	3.4"L x 2.2"W x 1.3"H	7.95	7.15	5.75	4.29
207888CC	6†	12/120	9 - 15	1500-3100	105	3.4"L x 2.2"W x 1.3"H	5.79	5.25	4.78	4.34
207992CC	7	12/250	6 - 16	3500	105	2.3"L x 1.8"W x 1.6"H	6.95	6.29	5.65	5.09
32601CC	8	24/15	1 - 28	2900	95	1.4"H x 1.7"Dia.	4.95	4.45	3.95	3.59
123537CC	8*	24/20	4 - 28	2900	80	1.4"H x 1.7"Dia.	4.19	3.79	3.39	2.95
76021CC	9	24/20	1.5 - 28	3200	95	1.0"H x 1.1"Dia.	4.99	4.49	3.99	3.49

* Dual tone † Siren

Mechanical/ElectroMechanical Buzzers

24871CC	10	9/30	6 - 12	400	75	1.3"L x 0.7"W x 0.6"H	\$2.49	\$1.99	\$1.79	\$1.79
140695CC	10	12/25	9 - 15	400	75	1.3"L x 0.7"W x 0.6"H	1.79	1.59	1.49	1.29
105822CC	11	9/220	—	500	80	1.3"H x 2.0"Dia.	1.39	1.25	1.15	.91

Quantity
SAVE

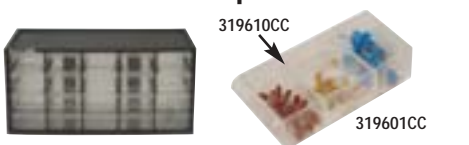


We want to hear from you. Tell us what you think. E-mail us at feedback@Jameco.com.

Electromech

Component Cabinet, Boxes and Drawers

Component Cabinet



- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H • Wt.: 2.8 lbs.

319601CC size: 5.5"L x 2.7"W x 1.5"H

319610CC size: 2.5"W x 1.2"H

85454CC size: 5.5"L x 2.7"W x 1.5"H

85446CC size: 2.4"L x 1.1"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

* Prepackaged: order in increments of 10 or 50

Part No.	Description	1	10	50
319599CC	Drawer (319601CC) Divider (319610CC)			
319599CC	Component cabinet	\$15.95	\$13.95	\$12.49
319601CC	Drawer for cabinet	.39	.35	.294
319610CC	Divider for cabinet	.*	.19	.17
85454CC	Drawer for P/N 81701	.39	.35	.29
85446CC	Divider for P/N 81701	.*	.19	.14

Plastic Fliptop Box

Double-Sided Box

- Unique double-sided design allows box to be opened from both top and bottom
- Size: 6.5"L x 4.0"W x 1.5"H

Part No.	Description	1	10	100
148865CC	Double sided box	\$1.89	\$1.71	\$1.55

Plastic Fliptop Boxes

- Clear plastic box with a clear plastic lid and removable dividers
- 100255CC: Size: 8.4"L x 4.5"W x 1.4"H
- 18 compartments (1.4" x 1.5" each)
- 148902CC: Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)

Part No.	Description	1	10	100
100255CC	18 compartments	\$2.25	\$1.95	\$1.75
148902CC	12 compartments	3.95	3.49	2.95

Plastic Fliptop Case for SMDs

128 Compartments for Surface Mount Components

- 8 rows x 16 columns grid
- Fliptop openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156881CC SMD resistor assortment, pg 65
- Size: 11.0"L x 8.3"W x 1.7"Thick
- Weight: 1.4 lbs. • Color: gray

Includes: Labels for each bin

Part No.	Description	1	10
164267CC	SMD fliptop case	\$49.95	\$44.99

Stackable Drawers

- Case size: 4.5"L x 4.4"W x 2.3"H
- Drawer size: 4.4"L x 4.0"W x 0.9"H
- Color: blue/white

Part No.	Description	1	10	100
11906CC	Case/drawers	\$2.95	\$2.49	\$1.95

Bug Boxes

- Anti-static plastic
- Fits in bug cage (P/N 11332CC, below)
- 11341CC: stores sixty 8-pin or thirty 16-pin DIPs
- 11375CC: Designed to store all types of components
- Box size: 4.9"L x 3.3"W x 0.6"H

Part No.	Description	1	10	100
11341CC	30 compartments	\$3.95	\$3.49	\$3.15
11375CC	3 compartment/6 vertical & 6 horizontal dividers	3.95	3.56	3.20

Bug Trays

- Fits in bug cage (P/N 11332CC, below)
- 11826CC Open: 1 compartment 4.6"L x 3.2"W x 0.4"H
- 11800CC Divided: 10 compartments 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H

Part No.	Description	1	10	100
11826CC	Open bug tray	\$2.29 \$1.79	\$1.61	\$1.46
11800CC	Divided bug tray	3.19	2.87	2.58

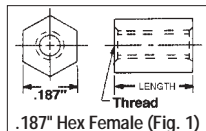
Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Color: blue
- Weight: 0.7 lbs.
- Case size: 5.0"L x 3.9"W x 5.1"H

Part No.	Description	1	10	100
11332CC	Bug cage	\$7.49	\$6.74	\$6.07

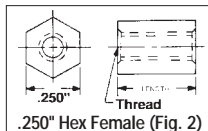
Hex
.187" .250" Female

Aluminum & Brass Threaded Standoffs

† Finish: Iridite (clear)¹ per MIL-C-5541-D;
bright tin plate²; stainless steel³Hex
.250" Male/Female

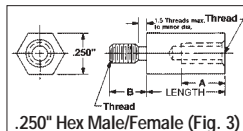
.187" Hex Female

4-40 Thread (Fig. 1) .187" Hex



.250" Hex Male/Female

4-40 Thread (Fig. 3) (Thread A: .250"; B: .187")



.250" Hex Male/Female

* Prepackaged: order in
increments of 10, 100 or 1000

Part Number	Metal†	Hex Length	Pricing		
			10	100	1000
175636CC	Brass ²	.187"	\$.21	\$.15	\$.10
102795CC	Brass ²	.240"	.21	.15	.10
133612CC	Alum ¹	.250"	.20	.12	.09
133639CC	Alum ¹	.500"	.22	.20	.11
139791CC	Alum ¹	.562"	.18	.15	.13
133647CC	Alum ¹	.625"	.14	.13	.11
133655CC	Alum ¹	.750"	.43	.39	.23
139184CC	Alum ¹	1.000"	.43	.39	.32

.250" Hex Female

4-40 Thread (Fig. 2) .250" Hex

* Prepackaged: order in
increments of 10, 100 or 1000

Part Number	Metal†	Hex Length	Pricing			
			1	10	100	1000
139192CC	Alum ¹	.250"	*	\$.16	\$.12	\$.08
77500CC	Alum ¹	.375"	*	.20	.15	.09
134762CC	Alum ¹	.437"	*	.21	.18	.15
108370CC	Alum ¹	.500"	*	.25	.17	.10
77518CC	Alum ¹	.625"	.42	.35	.19	.14
133604CC	Alum ¹	.750"	.39	.35	.19	.14
139205CC	Alum ¹	1.000"	.49	.35	.25	.15

.250" Hex Female

6-32 Thread (Fig. 2) .250" Hex

* Prepackaged: order in
increments of 10, 100 or 1000

Part Number	Metal†	Hex Length	Pricing			
			1	10	100	1000
77534CC	Alum ¹	.250"	*	\$.22	\$.14	\$.08
133591CC	Alum ¹	.375"	.32	.29	.13	.09
77542CC	Alum ¹	.500"	*	.22	.17	.10
77551CC	Alum ¹	.625"	*	.25	.19	.14
77569CC	Alum ¹	.750"	.31	.28	.21	.13
77577CC	Alum ¹	1.000"	.59	.35	.30	.16
143407CC	Alum ¹	1.500"	.69	.61	.49	.42
143440CC	Alum ¹	1.750"	.79	.59	.48	.41

Part Number	Metal†	Hex Length	Pricing			
			1	10	100	1000
77585CC	Alum ¹	.250"	\$.41	\$.37	\$.17	\$.128
77593CC	Alum ¹	.375"	.43	.34	.19	.12
111755CC	Alum ¹	.500"	.49	.44	.36	.20
175628CC	Steel ³	.580"	*	.19	.14	.12
139213CC	Alum ¹	.625"	.43	.39	.35	.31
139221CC	Alum ¹	.750"	.43	.39	.35	.21
139230CC	Alum ¹	1.00"	.49	.44	.36	.30
128565CC	Alum ¹	1.25"	.59	.53	.44	.38
166545CC	Alum ¹	1.50"	.75	.65	.59	.49

.250" Hex Male/Female

6-32 Thread (Fig. 3) (Thread A: .375"; B: .250")

10 piece minimum

Part Number	Metal†	Hex Length	Pricing		
			10	100	1000
133541CC	Alum ¹	.250"	\$.39	\$.35	\$.21
133567CC	Alum ¹	.375"	.39	.35	.22
77606CC	Alum ¹	.500"	.32	.29	.23
77622CC	Alum ¹	.750"	.39	.35	.28
77649CC	Alum ¹	1.000"	.44	.40	.32
206623CC	Steel ³	1.250"	.40	.36	.32

RAF Instrumentation Handle

- 5/8" oval diameter
- 9/32" thick
- 10-32 internal thread size
- Color: nickel plate
- Base metal: brass



Part No.	Size (L" x H")	1	10	100
216821CC	3.0 x 1.3	\$2.95	\$2.25	\$1.69

Order Anytime 24x7x365

Phone 1-800-831-4242 Fax 1-800-237-6948

Online www.Jameco.com

SAE Hardware

- Zinc-plated steel



Prepackaged: order in increments of 100 or 1000

Slotted Pan Head Machine Screws				
Part Number	Screw Size	Thread	Length (inches)	100 piece minimum
38172CC	2-56	Std	.250	\$.025 .022
40951CC	4-40	Std	.250	.019 .011
40969CC	4-40	Std	.375	.017 .012
106809CC	4-40	Std	.500	.018 .013
106542CC	6-32	Std	.250	.018 .013
42446CC	6-32	Std	.375	.019 .014
42438CC	6-32	Std	.500	.019 .015
106796CC	8-32	Std	.500	.04 .025

Hex Nuts				
Part Number	Screw Size	Thread	Length (inches)	100 piece minimum
38164CC	2-56	Std	.183	\$.022 .014
211123CC	4-40	Sm	.184	.023 .011
40942CC	4-40	Std	.243	.025 .013
42420CC	6-32	Std	.306	.023 .014
51553CC	8-32	Std	.334	.02 .014

Flat Washers				
Part Number	Screw Size	Dia. (inches)	100 piece minimum	
211131CC	4	.237	\$.019	\$.014
106825CC	4	.281	.022	.019
106833CC	6	.373	.022	.019
106841CC	8	.377	.04	.025

Internal Tooth Lock Washers				
Part Number	Screw Size	Dia. (inches)	100 piece minimum	
106850CC	4	.258	\$.018	\$.015
106868CC	6	.277	.018	.015
106876CC	8	.323	.016	.015

Split Lock Washers				
Part Number	Screw Size	Dia. (inches)	100 piece minimum	
106788CC	2	.161	\$.024	\$.016
211140CC	4	.201	.02	.015
40977CC	4	.242	.02	.015
42462CC	6	.240	.011	.009
51609CC	8	.279	.012	.006

200 Piece Spring Assortment

This kit contains approximately 200 springs with 20 different types, compression and tension ratings in a clear plastic case. They range from smallest which is about 10mm long to the longest 70mm long. Spring sizes listed on lid of plastic case.



Part No.	Description	1	10
314413CC	200-piece spring assortment	\$7.29	\$6.89

3M Adhesive Rubber Feet

These are perfect for project boxes, providing a non-slip, non-scratch surface.



Part No.	Product No.	Type	Fig.	Pack	(W" x H")	1	10	50
119618CC	SJ5012BLK4	Black cylindrical	1	4	.50 x .14	\$.39	\$.28	\$.26
142658CC	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	5.95	5.35	4.79
142771CC	SJ5008BLKC	Black square	2	100	.50 x .12	6.69	4.76	3.40
142682CC	SJ5018BLKC	Black square	3	100	.50 x .23	9.95	8.25	5.39
126981CC	SJ5023BLK4	Black square	4	4	.81 x .30	1.95	1.75	1.59
142666CC	SJ5023BLKC	Black square	4	100	.81 x .30	14.25	9.10	8.69

PCB Standoff Mounting Hardware

- Snap "on"
- Nylon
- 291987CC: with thread
- 10 piece minimum

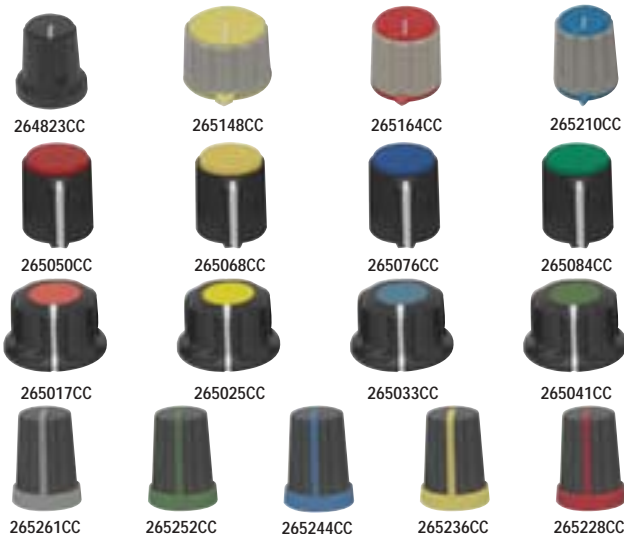


Part No.	Mfr. Cross Ref. No.	Dimensions	Holes	10	100	1000
28337CC	PCST	1.2"L x 0.6"W	0.2"	\$.12	\$.07	\$.04
129251CC	PCST2	0.9"L x 0.4"Dia.	0.2"/0.3" .....	.18	.11	.075
148056CC	PCST3	0.8"L x 0.5"W	0.1"/0.2" .....	.09	.08	.06
156831CC	KCS10	0.68"L x 0.32"Dia.	0.14" .....	.125	.093	.063
291961CC	ACBS-6	0.75"L x 0.5"W	0.1"/0.2" .....	.135	.058	.033
291987CC	CASE-45-50	0.85"L x 0.3"Dia.	0.2" .....	.14	.092	.059
292015CC	SCB-6	0.7"L x 0.27"Dia.	0.1"/0.2" .....	.162	.138	.117



Color Instrumentation Knobs (1/4" Shaft Diameters)

- JK-907 series: pressure fit type, top set screw; JK-905 series: side set screw
- CR-MS series for knurled shaft



Part No.	Product No.	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
264823CC	CPBTAA191A1S6.4BK	Black/Black	White	.79 x .77	\$.99	\$.93	\$.88
264786CC	CPBTAA191A1S6.4RD	Black/Red	White	.79 x .77	.99	.93	.88
264794CC	CPBTAA191A1S6.4YW	Black/Yellow	White	.79 x .77	.99	.93	.88
264807CC	CPBTAA191A1S6.4BL	Black/Blue	White	.79 x .77	.99	.93	.88
264815CC	CPBTAA191A1S6.4GN	Black/Green	White	.79 x .77	.99	.93	.88
264831CC	CPBTAA191A1S6.4GY	Black/Grey	White	.79 x .77	.99	.93	.88
265156CC	JK-907A-BL	Grey/Blue	Blue	.76 x 1.27	1.99	1.87	1.78
265130CC	JK-907A-RD	Grey/Red	Red	.76 x 1.27	1.99	1.87	1.78
265148CC	JK-907A-YW	Grey/Yellow	Yellow	.76 x 1.27	1.99	1.87	1.78
265181CC	JK-907B-BL	Grey/Blue	Blue	.86 x .94	1.99	1.87	1.78
265172CC	JK-907B-YW	Grey/Yellow	Yellow	.86 x .94	1.99	1.87	1.78
265164CC	JK-907B-RD	Grey/Red	Red	.86 x .94	1.99	1.87	1.78
265199CC	JK-907C-RD	Grey/Red	Red	.72 x .68	1.99	1.87	1.69
265201CC	JK-907C-YW	Grey/Yellow	Yellow	.72 x .68	1.99	1.87	1.78
265210CC	JK-907C-BL	Grey/Blue	Blue	.72 x .68	1.99	1.87	1.78
265050CC	JK-905A	Black/Red	White	.58 x .57	.92	.73	.66
265068CC	JK-905B	Black/Yellow	White	.58 x .57	.92	.73	.66
265076CC	JK-905C	Black/Blue	White	.58 x .57	.92	.73	.66
265084CC	JK-905D	Black/Green	White	.58 x .57	.92	.73	.66
265017CC	JK-904A	Black/Red	White	.47 x .78	.99	.93	.88
265025CC	JK-904B	Black/Yellow	White	.47 x .78	.99	.93	.88
265033CC	JK-904C	Black/Blue	White	.47 x .78	.99	.93	.88
265041CC	JK-904D	Black/Green	White	.47 x .78	.99	.93	.88
265261CC	CR-MS-5C5-T18*	Grey	Grey	.68 x .51	.78	.67	.61
265252CC	CR-MS-4C5-T18*	Grey	Green	.68 x .51	.78	.67	.61
265244CC	CR-MS-3C5-T18*	Grey	Blue	.68 x .51	.78	.67	.61
265236CC	CR-MS-2C5-T18*	Grey	Yellow	.68 x .51	.78	.67	.61
265228CC	CR-MS-1C5-T18*	Grey	Red	.68 x .51	.78	.67	.61

* For use with 1/4" knurled shaft

Hardware and Spacer Assortment Kit

Includes 2300 pcs. (23 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted PH Screws

SAVE \$36

Part No.	Description	Wt. (lbs.)	1	10
108433CC	2300 pcs. Hardware kit	7.5	\$55.95	\$50.36
130497CC	Refill for 108433CC (2300 pcs.)	2.7	39.95	35.95



Black Instrumentation Knobs (1/4" Shaft Diameters)

- Set screw for secure attachment
- RN-112A/113A/114A: Numeric dial type

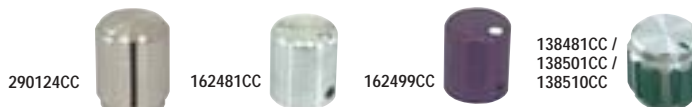


Part No.	Product No.	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
265092CC	JK-906A	Black	White	.72 x 1.39	\$1.09	\$.87	\$.80
265105CC	JK-906B	Black	White	.79 x .95	1.02	.71	.65
265113CC	JK-906C	Black	White	.64 x .82	.83	.62	.57
265121CC	JK-906D	Black	White	.58 x .61	.68	.53	.50
264997CC	JK-902A	Black	White	.69 x 1.31	.74	.57	.53
265009CC	JK-902B	Black	White	.60 x .95	.69	.47	.44
264920CC	JK-901A	Black/Alum	White	.79 x 1.77	1.34	1.16	1.05
264946CC	JK-901B	Black/Alum	White	.64 x 1.29	.90	.71	.65
264954CC	JK-901C	Black/Alum	White	.61 x 1.06	.75	.59	.54
264989CC	JK-901D	Black/Alum	White	.47 x .78	.68	.53	.48
264882CC	RN-112A	Black/Alum	Numeric	.90 x 1.46	.99	.93	.88
264891CC	RN-113A	Black/Alum	Numeric	.70 x 1.15	.99	.93	.88
264911CC	RN-114A	Black/Alum	Numeric	.58 x 1.46	.99	.93	.88
102787CC	JK-903C	Black	White	.54 x 1.25	.64	.41	.39
104176CC	JK-902C	Black	White	.49 x .75	.99	.85	.65
202286CC	CP-Z1-M-S	Black/Alum	White	.60 x .80	.79	.69	.64
136240CC	GKB-214	Black/Alum	White	.52 x .54	.65	.55	.49
138392CC	41108-1	Black/Alum	White	.56 x .85	.79	.59	.54



Aluminum Instrumentation Knobs (1/8" and 1/4" Shaft Diameters)

- Includes: Set screw for secure attachment
- 290124: Coarse surface for sensitive control; 1/8" shaft diameter



Part No.	Mfr. Ref. No.	Shaft Size	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
290124CC	42008-1	1/8"	Silver	Silver	.500 x .625	\$1.99	\$1.79	\$1.61
162481CC	K5-1/4S	1/4"	Chrome	Silver	.500 x .560	1.19	1.09	.96
162499CC	K5-1/4B	1/4"	Black	White	.500 x .560	1.55	1.39	1.07
138481CC	KN031	1/4"	Aluminum	Black	.610 x .650	1.49	1.35	1.19
138501CC	KN032	1/4"	Aluminum	Black	.870 x .750	1.95	1.71	1.55
138510CC	KN033	1/4"	Aluminum	Black	1.18 x .870	2.49	2.24	1.95

DC Brushless Fans

Color Code Legend
New Sale Qty Save Closeout



163475CC



102921CC

Call for additional OEM PRICING – we carry major manufacturers.

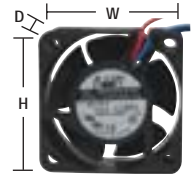
- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller
- Agency approved
- Low power consumption
- Low acoustical noise rating



Quantity
SAVE



213891CC



249375CC

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D") <i>See metric below</i>	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
163475CC	Nidec	C34427-55APP	5	1.00 x 1.00 x 0.40	0.5	Ball	90	0.45	—	22	2"	\$4.95	\$4.46	\$3.56	\$2.67
131246CC	Adda	AD0205LX-G50	5	1.00 x 1.00 x 0.40	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	8.49	7.64	7.01	6.38
206156CC	Sunon	KDE0502PFB3-8	5	1.00 x 1.00 x 0.40	1.83	Ball	60	0.3	UL/CSA/TUV/CE	23	5"	11.95	10.76	8.60	6.45
196373CC	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	8.09	7.25	6.55
102921CC	Sunon	KD0504PFS2-8	5	1.60 x 1.60 x 0.40	6.3	Sleeve	120	0.6	UL/CUL	24.3	12"	7.95	6.95	6.25	5.59
171678CC	Delta	AFB0405HHD	5	1.60 x 1.60 x 0.80	8.6	Ball	700	2.0	—	36	2.5"	5.49	4.94	3.95	2.96
207061CC	Adda	AD0505MB-G90	5	2.00 x 2.00 x 0.40	10.5	Ball	120	0.7	UL/CSA/CE	24	11"	7.95	6.55	5.75	4.29
279566CC	Mechatronics	F6025H05B	5	2.36 x 2.36 x 1.00	20	Ball	410	2.05	UL/CUL/TUV	31	6"	8.45	8.05	7.18	6.82
212804CC	Sunon	KDE1202PFB3-8	12	1.00 x 1.00 x 0.40	1.3	Ball	40	0.5	UL/CUL/TUV/CE/NDE	26	5.9"	10.95	9.89	8.89	7.99
102912CC	Sunon	KD1202PFB2-8	12	1.00 x 1.00 x 0.40	2.0	Ball	60	0.7	UL/CSA/TUV	30	6"	11.95	10.74	8.94	7.14
212791CC	Sunon	KDE1202PFB1-8	12	1.00 x 1.00 x 0.40	2.4	Ball	80	1.0	UL/CUL/TUV/CE/NDE	33	5.9"	10.95	9.86	8.87	7.98
212767CC	Sunon	KDE1203PFB3-8	12	1.18 x 1.18 x 0.40	2.3	Ball	50	0.6	UL/CUL/TUV/CE/NDE	18.5	5.9"	9.49	8.54	7.45	6.35
212775CC	Sunon	KDE1203PFB2-8	12	1.18 x 1.18 x 0.40	3.0	Ball	60	0.8	UL/CUL/TUV/CE/NDE	25	5.9"	9.69	8.75	7.85	7.05
212783CC	Sunon	KDE1203PFB1-8	12	1.18 x 1.18 x 0.40	3.5	Ball	75	0.9	UL/CUL/TUV/CE/NDE	27	5.9"	10.95	8.50	7.85	6.95
212732CC	Sunon	KDE1235PFB3-8	12	1.40 x 1.40 x 0.40	3.2	Ball	50	0.6	UL/CUL/TUV/CE/NDE	18	5.9"	11.49	10.34	8.36	6.38
212741CC	Sunon	KDE1235PFB2-8	12	1.40 x 1.40 x 0.40	4.5	Ball	60	0.8	UL/CUL/TUV/CE/NDE	21	5.9"	11.95	9.49	8.49	7.65
212759CC	Sunon	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CE/NDE	25	5.9"	11.95	10.76	9.68	8.06
207052CC	Adda	AD0412MB-K90	12	1.60 x 1.60 x 0.25	5.5	Ball	60	0.72	UL/CSA/TUV/CE	25	5"	6.95	6.26	5.00	3.75
191476CC	Common Wealth	FP-108HX/DC	12	1.60 x 1.60 x 0.40	4.0	Sleeve	60	0.72	UL/CSA/TUV/CE	25	12"	5.95	5.36	4.49	3.19
210796CC	Sunon	KD1204PFB3H	12	1.60 x 1.60 x 0.40	4.7	Ball	50	0.6	UL/CUL/TUV/CE	24	14"	6.95	6.25	5.59	4.95
279611CC	Toyo	T401012VH	12	1.60 x 1.60 x 0.40	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	7.49	6.74	5.39	4.04
189691CC	Sunon	KD1204PFS2	12	1.60 x 1.60 x 0.40	6.3	Sleeve	70	0.9	UL/CSA/TUV	24	12"	7.95	7.19	6.45	5.45
161699CC	Sunon	KD1204PFB2-8	12	1.60 x 1.60 x 0.40	6.3	Ball	70	0.6	UL/CSA/TUV	30	12"	7.95	6.95	6.25	5.59
212716CC	Sunon	KDE1204PFB2-H	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CE/NDE	27	12"	6.65	4.95	4.36	3.95
290010CC	Adda	AD0412HB-G70	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/ conn.	4.95	4.60	4.14	3.72
311968CC	Adda	AD0412HS-G70	12	1.60 x 1.60 x 0.40	6.7	Sleeve	100	1.2	UL/CUL/TUV/CE	25	2.5"	4.25	2.89	2.69	2.59
213428CC	Adda ¹	AD0412HB-G76	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	CE	30.2	12"/3 leads	7.59	6.83	5.46	4.10
212724CC	Sunon	KDE1204PFB1-H	12	1.60 x 1.60 x 0.40	8.3	Ball	110	1.4	UL/CUL/TUV/CE/NDE	34.4	12"	6.65	5.99	5.09	3.81
174131CC	Jamicon	JF0413S1M	12	1.60 x 1.60 x 0.47	3.8	Sleeve	90	1.1	UL/CSA/TUV	29	14"	2.95	2.66	2.12	1.59
213891CC	Adda	AD0412MB-D50	12	1.60 x 1.60 x 0.60	8.1	Ball	100	1.2	UL/CUL/CE	31.8	11.5"	6.99	6.29	5.66	5.10
136178CC	Adda	AD0412MS-C70	12	1.60 x 1.60 x 0.80	5	Sleeve	110	1.32	UL/CSA	23	9"	5.49	4.95	3.95	2.95
195899CC	Sunon	KDE1204PKS2	12	1.60 x 1.60 x 0.80	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	7.95	7.15	6.45	5.35
279620CC	Toyo	T402012H	12	1.60 x 1.60 x 0.80	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	7.29	6.56	5.25	3.94
195881CC	Common Wealth	FP-108G/DC(S1)	12	1.60 x 1.60 x 0.80	7.6	Ball	160	1.92	UL/CSA/CE	32	12"	3.45	3.14	2.85	2.60
206447CC	Delta	DFB0412H	12	1.60 x 1.60 x 0.80	8.5	Ball	100	1.0	UL/CSA/VDE	32	8"	7.95	7.16	6.44	5.80
249375CC	Adda ²	AD0412HB-C56	12	1.60 x 1.60 x 0.80	9.2	Ball	100	1.1	UL/CUL/TUV/CE	39.3	12"	8.95	8.06	6.44	4.83
206164CC	Sunon	KDE1204PKB-8	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	12"	8.95	7.95	6.95	6.95
212679CC	Sunon	KDE1245PFB3-H	12	1.80 x 1.80 x 0.40	6.1	Ball	60	0.7	UL/CUL/TUV/CE/NDE	23	12"	4.49	4.04	3.64	3.27
212687CC	Sunon	KDE1245PFB2-H	12	1.80 x 1.80 x 0.40	8.0	Ball	90	1.1	UL/CUL/TUV/CE/NDE	29	12"	4.75	4.28	3.85	3.46
212695CC	Sunon	KDE1245PFB1-H	12	1.80 x 1.80 x 0.40	9.5	Ball	110	1.4	UL/CUL/TUV/CE/NDE	33.8	12"	4.99	4.49	4.04	3.64
212644CC	Sunon	KDE1205PFB3-HG	12	2.00 x 2.00 x 0.40	8.5	Ball	60	0.7	UL/CUL/TUV/CE/NDE	26	12"	6.49	5.84	5.26	4.73
212652CC	Sunon	KDE1205PFB2-HG	12	2.00 x 2.00 x 0.40	10.6	Ball	80	1.0	UL/CUL/TUV/CE/NDE	31.5	12"	6.65	4.95	4.36	3.95
297959CC	Delta	EFB0512HA	12	2.00 x 2.00 x 0.40	11.4	Ball	150	1.8	UL/CSA/CE/VDE	30	6" w/ conn.	6.29	4.99	4.66	4.43
212661CC	Sunon	KDE1205PFB1-HG	12	2.00 x 2.00 x 0.40	12.5	Ball	110	1.4	UL/CUL/TUV/CE/NDE	36	12"	6.65	4.95	4.36	3.95
212628CC	Sunon	KDE1205PHB3-H	12	2.00 x 2.00 x 0.60	10.2	Ball	60	0.7	UL/CUL/TUV/CE/NDE	22.5	12"	8.29	7.46	6.71	5.60
206965CC	Adda	AD0512HB-D71	12	2.00 x 2.00 x 0.60	11.7	Ball	100	1.2	UL/CUL/TUV/CE	28.5	5"	3.55	3.22	2.93	2.66
139601CC	Adda	AD0512HS-D71	12	2.00 x 2.00 x 0.60	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	8.95	8.06	6.44	4.83
206172CC	Sunon ³	KDE1205PHB2-TM	12	2.00 x 2.00 x 0.60	12.7	Ball	140	1.7	UL/CSA/CE	27.8	11"/3 leads	7.95	6.11	5.72	4.29
212636CC	Sunon	KDE1205PHB2-H	12	2.00 x 2.00 x 0.60	13	Ball	80	1.0	UL/CUL/TUV/CE/NDE	29.5	12"	8.29	7.46	5.97	4.48
249092CC	Sunon	KD1206PFB1	12	2.36 x 2.36 x 0.40	5	Ball	120	1.4	UL/CSA/CE/TUV	36	11"	7.99	7.17	6.60	6.05
195944CC	Adda	AD612MS-D71GL	12	2.36 x 2.36 x 0.60	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	6.95	6.26	5.00	3.75
249068CC	Jamicon	JF0615B1H	12	2.36 x 2.36 x 0.60	15.74	Ball	170	2.04	UL/CUL/TUV/CE	34	10.5"	8.75	7.89	7.09	6.39
175046CC	Globe Motors	D24-B08A-04W3-000	12	2.36 x 2.36 x 0.80	10.6	Ball	90	0.8	UL/CSA/TUV/CE	22	13"	6.95	6.25	4.95	3.75
144160CC	Adda	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	8.49	7.69	6.15	4.65
189595CC	Sunon	KD1206PKS2	12	2.36 x 2.36 x 0.80	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	4.95	4.46	3.56	2.61

¹ 213428CC: ATX PC type ² 249375CC: Speed sensor ³ 206172CC: Locked rotor alarm

DC Brushless Fans continued on pages 135 and 136

•Size Conversion: Inches to mm

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	150	170



234894CC



102955CC

Call for additional OEM PRICING – we carry major manufacturers.

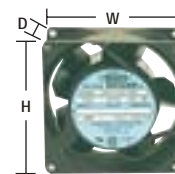
- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller
- Agency approved
- Low power consumption
- Low acoustical noise rating



Quantity
SAVE



227900CC



102875CC

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")* <i>See metric below</i>	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
185818CC	Cheng	CHA6012DB	12	2.36 x 2.36 x 0.90	20.5	Ball	180	2.5	UL	33	12"	\$6.95	\$6.29	\$5.05	\$3.79
237075CC	Nidec	TA225DC-B33399-55	12	2.36 x 2.36 x 1.00	12	Ball	110	1.3	UL/CSA	17.2	10"	5.95	5.36	4.82	4.06
75352CC	Common Wealth	FP108FDC12VS2	12	2.36 x 2.36 x 1.00	15.5	Sleeve	110	1.3	UL/CSA/TUV/CE	25	12"	5.79	5.21	4.17	3.13
136143CC	Delta	SB0612M	12	2.36 x 2.36 x 1.00	17.7	Sleeve	110	1.8	UL/CSA/VDE	26.5	5"	5.95	4.95	3.95	2.95
279646CC	Toyo	T602512H	12	2.36 x 2.36 x 1.00	18.1	Ball	140	1.7	UL/CUL/TUV/CE	34	12"	5.89	5.30	4.24	3.18
102947CC	Jamicon	JF0625S1H	12	2.36 x 2.36 x 1.00	20.5	Sleeve	230	2.7	UL/CSA/TUV	30.5	11"	6.95	6.29	5.05	3.79
150421CC	Jamicon	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	6.95	6.29	5.65	5.09
191548CC	Common Wealth	FP108FDC12VS1B	12	2.36 x 2.36 x 1.00	21	Ball	130	1.6	UL/CSA/TUV/CE	30	12"	6.95	6.26	5.00	3.75
195910CC	Sunon	KD1206PTS1	12	2.36 x 2.36 x 1.00	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	6.49	5.84	5.26	4.38
109081CC	Adda	AD0812HS-D71	12	3.15 x 3.15 x 0.60	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.99	8.09	7.25
141920CC	Adda	AD0812HB-C70	12	3.15 x 3.15 x 0.80	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	6.35	5.95	5.75	5.55
16993CC	Various ^{1*}	FAN7315SL	12	3.15 x 3.15 x 1.00	25-40*	Sleeve	120-200*	1-2*	UL/CSA*	25*	4-12**	6.95	6.29	5.65	4.95
75361CC	Various*	FAN6315BL	12	3.15 x 3.15 x 1.00	25-40*	Ball	120-200*	1-2*	UL/CSA*	25*	4-12**	5.95	5.35	4.85	4.05
234894CC	Adda	AD0812LB-A70GL	12	3.15 x 3.15 x 1.00	27.6	Ball	120	1.44	UL/CSA/TUV/CE	22.5	11.5	8.19	6.39	5.89	5.49
286926CC	Toyo	USTF802512MW	12	3.15 x 3.15 x 1.00	29	Ball	180	2.16	UL/CSA/CE/VDE	24.8	4.5"	6.99	6.29	5.05	3.79
154288CC	Sunon	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	4.55	4.09	3.69	3.09
195952CC	Panasonic	FMB-08A12M	12	3.15 x 3.15 x 1.00	30	Sleeve	124	1.5	UL/CSA	28	11"	4.55	4.09	3.29	2.45
123529CC	Adda	AD0812MS-A70GL	12	3.15 x 3.15 x 1.00	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	6.95	6.26	5.63	5.07
265578CC	Yate Loon	D80SH-12	12	3.15 x 3.15 x 1.00	33	Ball	190	2.28	UL/CUL/TUV/CE	35.0	5"	7.29	7.18	7.07	6.96
166959CC	NMB (Smart Fan) [†]	3110NL-012Q340-00	12	3.15 x 3.15 x 1.00	35	Ball	290	3.5	UL/CSA	35	2"	8.95	8.09	6.49	4.85
191599CC	NMB	3110KL-04W-B50	12	3.15 x 3.15 x 1.00	39	Ball	230	2.7	CSA	34	10"	7.49	6.74	6.07	5.46
185834CC	Panaflo	FBM08A12H	12	3.15 x 3.15 x 1.00	39.6	Sleeve	220	2.1	—	32	11"	6.95	6.29	5.05	3.79
206181CC	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	5.95	5.35	4.29	3.25
185826CC	NMB ²	3110KL-04W-B69	12	3.15 x 3.15 x 1.00	42	Ball	340	3.1	UL/CSA/VDE/CE	35	13/3 leads	6.95	6.26	5.63	5.07
102955CC	Sunon	KD1208PTB1-6	12	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	33.5	12"	6.49	5.85	5.29	4.75
249148CC	Sunon	KDE1208PTB1-6	12	3.15 x 3.15 x 1.00	42.5	Ball	—	2.6	—	33.5	12"	6.49	5.85	5.29	4.75
172460CC	Nidec ³	TA300DCM33406-68	12	3.15 x 3.15 x 1.00	43	Ball	290	3.5	UL/CSA	41	11/3 leads	9.95	8.99	7.19	5.39
189755CC	Cheng	CHA8012DB	12	3.15 x 3.15 x 1.00	44.3	Ball	300	3.6	UL	37	2" w/ conn.	5.49	4.94	3.95	2.96
196015CC	Cheng	CHA9212CB	12	3.63 x 3.63 x 1.00	44.1	Ball	190	2.3	UL/CSA	31	12"	5.25	4.75	3.79	2.85
75441CC	Common Wealth	FP108BDC12VS1	12	3.63 x 3.63 x 1.00	45	Sleeve	320	3.1	UL/CSA/TUV/CE	32	10"	3.19	2.87	2.58	2.33
154641CC	Nidec	TA350DC-M33422-16	12	3.63 x 3.63 x 1.00	48	Ball	290	3.5	UL/CSA	43	12"	7.55	6.79	5.45	4.09
190983CC	Sunon	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	7.25	6.55	5.89	5.29
116476CC	Jamicon	JF0925S1H	12	3.63 x 3.63 x 1.00	52	Sleeve	350	4.2	UL/CSA/TUV	37	10"	3.99	3.59	2.87	2.15
162739CC	NMB (Smart Fan) [†]	3610KL-04W-B56	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10/3 leads	7.19	6.47	5.18	3.88
102963CC	Nidec	TA350DC-M33503-55	12	3.63 x 3.63 x 1.00	56	Ball	400	4.8	UL/CSA	45	8"	7.95	6.95	6.25	5.59
279654CC	Toyo	T922512H	12	3.63 x 3.63 x 1.00	56.4	Ball	280	3.4	UL/CUL/TUV/CE	34.3	12"	7.95	7.15	6.65	6.45
284971CC	Delta	EFB09SH	12	3.63 x 3.63 x 1.00	75.6	Ball	500	6.0	UL/CSA/VDE/CE	47	5"	8.99	8.09	6.47	4.85
319193CC	Pabst NEW	3312-177	12	3.63 x 3.63 x 1.26	54.7	Ball	290	3.5	UL/CSA/CE/VDE	43	12"	7.95	7.15	6.55	6.45
213567CC	Nidec ⁴	A34124-33	12	3.83 x 3.72 x 1.30	25	Ball	650	7.8	UL/CUL	60	11.5/3 leads	19.95	17.95	14.36	10.77
174140CC	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	6.95	6.29	5.05	3.79
227900CC	Common Wealth	FP-108M-S1-B	12	4.68 x 4.68 x 1.00	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	10.95	9.85	8.89	7.99
102875CC	Delta	WFB1212H	12	4.68 x 4.68 x 1.00	86.5	Ball	360	4.3	UL/CSA/TUV	37.6	12"	10.95	9.89	8.89	7.45
174924CC	Globe Motors	D47-B10A-04T3-000	12	4.68 x 4.68 x 1.00	90	Ball	740	6.8	UL/CSA	39	Terminals	6.95	6.29	5.05	3.79
163619CC	NMB (Smart Fan) [†]	4710NL012P535PO	12	4.68 x 4.68 x 1.00	90	Ball	740	8.9	—	38.5	12"	4.95	4.46	3.56	2.67
285966CC	Delta	AFB1212VHE	12	4.68 x 4.68 x 1.50	130	Ball	900	10.8	UL/CSA/VDE/CE	48	6"	14.95	13.45	10.75	8.09
159020CC	Sunon	KDE1212PMS1-6A	12	4.68 x 4.68 x 1.50	107	Sleeve	570	6.8	UL/CSA/TUV	41	12"	11.95	10.76	8.60	6.45
94625CC	Sunon	KD1212PMB1-6A	12	4.68 x 4.68 x 1.50	108	Ball	570	6.8	UL/CSA/TUV/CE	42	12"	11.95	10.79	8.65	6.49
189851CC	Delta	WFB1212HE	12	4.68 x 4.68 x 1.50	108	Ball	490	5.9	UL/CSA/VDE/CE	41.3	12"	11.95	10.79	9.69	7.99
206201CC	Sunon	KDE2404PKB3	24	1.60 x 1.60 x 0.80	6	Ball	30	0.7	UL/CSA/TUV/CE	24	12"	7.49	6.79	6.09	5.49
100909CC	Sunon	KD2404PKS2	24	1.60 x 1.60 x 0.80	6.5	Sleeve	50	1.2	UL/CSA/TUV/CE	25.5	12"	7.95	7.16	6.44	5.36

¹ 16993CC: Replacement for the PC/XT computer power supply fan

[†] Temperature control: P/N 166959CC (40°C); P/N 162739CC (50°C, 3 leads); P/N 163619CC (35°C)

² 185826CC: Speed sensor

³ 172460CC: Locked rotor alarm

⁴ 213567CC: Blower type

* Manufacturer & specifications may vary

DC Brushless Fans continued on page 136

• Size Conversion: Inches to mm

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	150	170

DC Brushless Fans (Continued)

Color Code Legend
New Sale Qty Save Closeout



236099CC

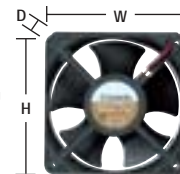


Call for additional OEM PRICING – we carry major manufacturers.

- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller
- Agency approved
- Low power consumption
- Low acoustical noise rating



Quantity
SAVE



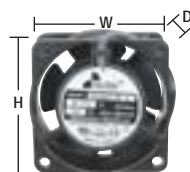
153411CC

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")* See metric below	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
140661CC	NMB	2408NL-05W-B60	24	2.36 x 2.36 x 0.80	18.4	Ball	100	2.4	—	31	2"	\$5.95	\$5.39	\$4.34	\$3.24
174107CC	Jamicon	JF0625S2M	24	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/TUV	28.5	10"	4.49	4.04	3.23	2.42
189860CC	Jamicon	JF0625B2M	24	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	8.06	7.25	6.52
227248CC	Mechatronics	F6025E24B	24	2.36 x 2.36 x 1.00	24	Ball	125	3.0	UL/CUL/TUV	36	12"	7.95	7.15	5.75	4.29
290028CC	Jamicon	JF0825B2M	24	3.15 x 3.15 x 1.00	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	8.25	6.16	5.52	4.99
136160CC	Jamicon	JF0825B2H	24	3.15 x 3.15 x 1.00	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.49	8.55	7.69	6.95
189878CC	Sunon	KD2408PTB1-6A	24	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	UL/CSA/TUV/CE	36.5	12"	9.95	8.99	8.05	6.75
236099CC	PAPST ¹	8314/19H	24	3.15 x 3.15 x 1.26	32	Ball	245	6.0	UL/CSA/VDE/CE	36	12"/3 leads	9.95	8.96	7.16	5.37
189886CC	NMB	3610KL-05W-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	7.16	5.72	4.19
174094CC	Jamicon	JF0925S2H	24	3.63 x 3.63 x 1.00	52	Sleeve	190	4.6	UL/CUL	37	10"	6.95	6.26	5.00	3.75
175281CC	Globe Motors	D47B10A05W2000	24	4.68 x 4.68 x 1.00	70	Ball	160	2.9	UL/CSA/TUV/CE	34	12"	12.95	11.66	10.49	9.44
249287CC	Jamicon	JF1225B2H5	24	4.68 x 4.68 x 1.00	82.97	Ball	500	12	—	41.1	7.5"	12.39	11.15	8.92	6.69
206228CC	Sunon ¹	KDE2412PMS1-6A	24	4.68 x 4.68 x 1.00	107	Sleeve	310	7.4	UL/CSA/TUV/CE	41	11"/3 leads	13.69	12.32	11.09	9.98
100968CC	Sunon	KDE2412PMB3-6A	24	4.68 x 4.68 x 1.50	83	Ball	140	3.4	UL/CSA/TUV/CE	35	12"	12.95	11.69	10.49	8.75
153411CC	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	11.95	10.79	9.69	8.75

¹ 236099CC/206228CC: Locked rotor alarm

AC Tube Axial Fans

Call for additional OEM PRICING – we carry major manufacturers.



213866CC



146077CC



- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 10.2 to 226 CFM

Fan Power
Cords on
Next Page



75432CC

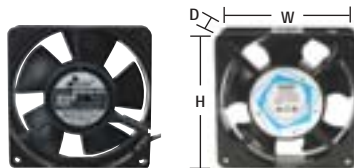


111894CC

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size (W" x H" x D")* See metric below	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
213866CC	Fulltech	UF60D11BWH	115	2.36 x 2.36 x 1.18	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$15.95	\$14.39	\$12.95	\$11.65
162704CC	Toyo	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	15.49	13.95	12.55	11.29
303491CC	Fulltech	UF060DBTH	115	2.36 x 2.36 x 1.18	10	Ball	38	4	UL/CSA/CE	29	Terminals	15.49	13.95	12.55	11.29
146077CC	Common Wealth	FP108AX-S1-B	115	3.15 x 3.15 x 1.00	23	Ball	140	14	UL/CE	29	12" leads	12.95	11.69	10.49	9.45
300556CC	Fulltech	UF80B11SWH	115	3.15 x 3.15 x 1.00	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	9.19	8.25	7.98	7.70
300257CC	Fulltech	UF80B11BTH	115	3.15 x 3.15 x 1.00	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	10.19	9.18	8.87	8.57
300581CC	Fulltech	UF80A11SWL	115	3.15 x 3.15 x 1.50	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	9.59	8.64	8.35	8.06
300302CC	Fulltech	UF80A11BWL	115	3.15 x 3.15 x 1.50	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	10.55	9.50	9.19	8.87
300329CC	Fulltech	UF80A11BTL	115	3.15 x 3.15 x 1.50	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	10.55	9.50	9.19	8.87
300599CC	Fulltech	UF80A11BWH	115	3.15 x 3.15 x 1.50	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	11.39	10.26	9.59	9.09
300388CC	Fulltech	UF80A11BTH	115	3.15 x 3.15 x 1.50	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	11.39	10.26	9.58	9.10
297932CC	Fulltech	UF80A11SWH	115	3.15 x 3.15 x 1.50	30	Sleeve	120	12	UL/CUL/TUV/CE	36	12" leads	10.19	9.18	8.99	8.57
300386CC	Fulltech	UF80A11STH	115	3.15 x 3.15 x 1.50	30	Sleeve	120	12	UL/CUL/TUV/CE	36	Terminals	10.19	9.18	8.87	8.57
303394CC	Fulltech	UF80A11STL	115	3.15 x 3.15 x 1.50	25	Sleeve	100	11.5	UL/CUL/TUV/CE	32	Terminals	10.19	9.18	8.87	8.57
75459CC	Sunon	SF11592A-1092HBT	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	15.95	14.39	12.95	11.65
75432CC	Sunon	SF11592A-1092HSL	115	3.63 x 3.63 x 1.00	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	12.55	11.29	10.19	9.15
303466CC	Sunon	SF11592A-1092HBL	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	15.95	14.39	12.95	11.65
303407CC	Sunon	SP100A-1123XBL	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	14.95	13.95	12.95	11.95
303415CC	Common Wealth	FP108-1-S1-B/W	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	12" leads	16.95	15.29	13.75	12.39
303482CC	Fulltech	UF12A11SWL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CSA/TUV/CE	15	12" leads	12.85	11.54	10.77	10.23
124062CC	Sunon	SP101AT1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	CSA/TUV/CE	46	Terminals	13.49	10.95	9.89	9.19
303440CC	Fulltech	UF12A11BWL1	115	4.68 x 4.68 x 1.50	64	Ball	80	115	UL/CSA/TUV/CE	37	12" leads	14.95	13.49	12.15	10.95
303360CC	Fulltech	UF12A11BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	12.85	11.54	10.76	10.23
300791CC	Fulltech	UF12A11STL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	10.95	9.84	9.51	9.19
111894CC	Common Wealth	FP108-1-S1/W	115	4.68 x 4.68 x 1.50	105	Sleeve	180	17	UL/CSA/CE	47	12" leads	13.95	12.59	11.35	10.19
106585CC	Common Wealth	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	15.95	14.39	12.95	11.65
16934CC	Common Wealth	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	16.95	15.29	13.75	12.39

• Size Conversion: Inches to mm

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	150	170



Call for additional OEM PRICING – we carry major manufacturers.



- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 10.2 to 226 CFM



212599CC

275792CC

206308CC

209365CC

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size (W" x H" x D")* <i>See metric below</i>	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
212599CC	Fulltech	UF12A11BWH	115	4.68 x 4.68 x 1.50	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	\$12.95	\$11.95	\$10.95	\$9.95
275792CC	Sunon	SP101A-123HBT	115	4.68 x 4.68 x 1.50	107	Ball	180	18	UL/CSA/TUV/CE	50	Terminals	12.85	11.19	9.25	6.95
206308CC	Adda	AA1281UB-AT	115	4.68 x 4.68 x 1.50	107	Ball	230	24	CE	48	Terminals	14.95	13.45	10.79	8.09
102883CC	Sunon	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	14.95	13.95	12.95	11.95
108724CC	Fulltech	UF15AC11BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CUL/TUV/CE	58	Terminals	27.95	27.10	26.29	25.49
212564CC	Fulltech	UF15PC11BTL	115	6.75 x 5.90 x 2.00	113	Ball	260	30	UL/CUL/TUV/CE	41	Terminals	\$22.65 18.89	17.15	15.59	14.19
212572CC	Fulltech	UF15PC11BWL	115	6.75 x 5.90 x 2.00	113	Ball	260	30	UL/CUL/TUV/CE	41	12" leads	\$21.31 18.89	17.15	15.59	14.19
212581CC	Fulltech	UF15PC11BWH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	24.95	22.46	20.09	17.73
189683CC	Fulltech	UF15PC11BTH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	CSA	58	Terminals	29.95	26.35	22.75	17.06
174932CC	NMB	3115FS-23T-B10	220	3.15 x 3.15 x 1.50	25	Ball	30	4.6	UL/CSA/TUV/CE	25	Terminals	11.99	10.79	9.71	8.74
100917CC	Sunon	SF23080A/2083HSL	220	3.15 x 3.15 x 1.50	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	10.49	8.39	7.55	5.66
209365CC	Bi-Sonic	4C-230LB	220	4.68 x 4.68 x 1.50	63	Ball	60	9	TUV/CE	34	10" leads	12.95	11.69	10.49	9.45
302244CC	Rotron	28023	220	4.68 x 4.68 x 1.50	88	Ball	130	28.6	UL/CSA	50.7	Terminals	18.95	17.05	15.35	13.81
303458CC	Sunon	DP200A-2123XBL	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.39	12.95	11.65
102891CC	Sunon	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	15.95	14.39	12.95	11.65

♦ Size Conversion: Inches to mm

Inches	0.25	0.40	0.47	0.60	0.80	0.90	1.00	1.18	1.26	1.40	1.50	1.60	1.80	2.00	2.36	2.98	3.15	3.63	3.72	3.83	4.68	5.90	6.75
mm	6	10	12	15	20	23	25	30	32	35	38	40	45	50	60	75	80	92	95	97	120	150	170

Fan Guards, Filters and Power Cords

Fan Guards and Filters



123502CC



120037CC



31923CC/123511CC



25734CC



138561CC/196816CC



229665CC



138579CC/130104CC

Compatible with DC and AC Fans – pages 134 - 137

• All guards and filters fit all fans by matching the size dimension. Example: P/N 300556CC fan (3.15") matches P/N 31923CC metal guard (3.15").

Part No.	Description*	1	10	100	250
123502CC	1.60" metal (chrome) guard	\$.49	\$.43	\$.39	\$.35
120037CC	2.36" metal (chrome) guard	.79	.71	.57	.43
31923CC	3.15" metal (chrome) guard	.79	.65	.52	.49
123511CC	3.63" metal (chrome) guard	.99	.78	.67	.61
25734CC	4.68" metal (chrome) guard	1.09	.89	.69	.65

♦ Size conversion chart – previous page

Part No.	Description*	1	10	100	250
138561CC	3.15" plastic guard with mesh	\$1.39	\$1.25	\$1.15	\$.95
229665CC	3.63" plastic guard with mesh	1.49	1.35	1.25	1.09
196816CC	4.68" plastic guard with mesh	1.95	1.55	1.39	1.25
138579CC	3.15" alum. washable filter	2.95	2.65	2.39	2.15
130104CC	4.68" alum. washable filter	3.49	3.19	2.75	2.49

♦ Size conversion chart – previous page

Fan Power Cords: 24" Straight and Right-Angle

• Cord type: SPT-1 (2) conductor black • Voltage rating: 300V • Temperature range: 60°C • Fits all terminal fans

Part No.	Description	Length	1	10	100	250
28564CC	Straight socket cord	24"	\$.89	\$.80	\$.66	\$.60
104192CC	90° angle socket cord	24"	.85	.67	.59	.56



28564CC



104192CC

For Heat Sinks see page 42.



For Heat Sink Fans see page 176.



5 to 25-Watt Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend
New Sale Qty Save Closeout

Ultraminiature 5 to 20-Watt Power Supplies

- Working temp.: -10 to 60°C
- Free air cooling convection
- 100% full burn-in test
- Two year warranty
- UL/CUL/TUV/CE
- Universal AC input/full range
- Fixed switching frequency @ 100kHz
- High reliability, low-cost
- Short circuit/overload/over-voltage/over-temperature protection



5-Watt OFM-5000 Series

- Size: 2.28"L x 1.77"W x 0.83"H
- Inrush current: 20A@115VAC
- Pin-mount

10-Watt OFM-0100 Series

- Size: 2.56"W x 1.77"L x 0.83"H
- Inrush current: 25A@115VAC
- Pin-mount

20-Watt OFM-0200 Series

- Size: 3.50"L x 2.00"W x 0.78"H
- Inrush current: 25A@115VAC
- Chassis mount

15-Watt OFM-1500 Series

- Size: 2.76"L x 1.89"W x 0.83"H
- Inrush current: 25A@115VAC
- Pin-mount

Power Supplies Index

Open-Frame Switching

5-25 Watt	138
25-110 Watt (Medical)	139
25-50 Watt	140
45-65 Watt	141
65-100 Watt	142
100-110 Watt	143
125-350 Watt	144

Enclosed Switching

25-60 Watt	145
75-100 Watt	146
120-150 Watt	147
200-240 Watt	148
300-480 Watt	149
500-1500 Watt	150

DIN-Rail Switching

Linear	151
--------	-----

DC-DC Converters

6-10A Non-Isolated	151
15-30A Non-Isolated	152
0.5-10W Isolated	152
10-15W Isolated	153
20-30W Isolated	154
30-150W Isolated	155

Table Top Power Supplies

Regulated Switching	156-157
Regulated Linear	158
Unregulated	158
Regulated Switching (Medical)	159

Wall Adapters

Regulated Switching	159-160
Regulated Linear	161
Unregulated	161-164
AC-AC	164

Jameco Part No.	Manufacturer Product No.	Output		Load Regulation	Line Regulation	Ripple & Noise (mV p-p)	Price		
		Voltage@Current (min-max)	Power				1	10	25
300281CC	OFM-5001	+5V@0-1A	5W	±2%	±0.5%	50	\$30.39	\$28.50	\$27.08
300409CC	OFM-5002	+12V@0-0.42A	5W	±1%	±0.3%	150	30.39	28.50	27.08
300417CC	OFM-5003	+15V@0-0.33A	5W	±1%	±0.3%	150	30.39	28.50	27.08
300425CC	OFM-5005	+24V@0-0.23A	5W	±0.5%	±0.2%	240	30.39	28.50	27.08
300433CC	OFM-0101	+5V@0-2A	10W	±2%	±0.5%	50	36.09	34.20	32.49
300441CC	OFM-0102	+12V@0-0.85A	10W	±1%	±0.3%	180	36.09	34.20	32.49
300450CC	OFM-0103	+15V@0-0.67A	10W	±1%	±0.3%	180	36.09	34.20	32.49
300468CC	OFM-0105	+24V@0-0.42A	10W	±0.5%	±0.2%	240	36.09	34.20	32.49
300476CC	OFM-1501	+5V@0-3A	15W	±2%	±0.5%	60	40.85	38.00	36.10
300484CC	OFM-1502	+12V@0-1.25A	15W	±1%	±0.3%	150	40.85	38.00	36.10
300492CC	OFM-1503	+15V@0-1.0A	15W	±1%	±0.3%	150	40.85	38.00	36.10
300505CC	OFM-1505	+24V@0-0.63A	15W	±0.5%	±0.2%	240	40.85	38.00	36.10
300513CC	OFM-0201	+5V@0-4.4A	20W	±2%	±0.5%	50	43.69	40.85	38.81
300521CC	OFM-0202	+12V@0-1.8A	20W	±1%	±0.3%	150	43.69	40.85	38.81
300530CC	OFM-0203	+15V@0-1.4A	20W	±1%	±0.3%	150	43.69	40.85	38.81
300548CC	OFM-0205	+24V@0-0.92A	20W	±0.5%	±0.2%	240	43.69	40.85	38.81

Enclosed Power Supplies on pages 145-150.



15 & 25-Watt Open Frame

PSA15 & PSA25 Series: Single & Triple Outputs

- Load regulation: ±2.0%
- Line regulation: ±1.0%
- Universal input
- Isolation voltage: 3,000 VAC
- Voltage adjustment: 5% (PSA15 only)
- Inrush current: 30A @ 120VAC
- Temperature: 0° to +40°C
- One-year warranty
- Size: 4.33"L x 1.57"W x 0.91"H, except 230535CC 3.6"L x 2.5"W x 1.1"H



Jameco Part No.	Manufacturer	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price		
			Voltage@Current (min-max)	Power				1	10	25
229041CC	Phihong	PSA15LN3-050	+5V@0-3A	15W	90-264@47-63	50	UL/CUL/TUV/CE	\$17.95	\$16.95	\$16.19
229059CC	Phihong	PSA15LN3-120	+12V@0-1.25A	15W	90-264@47-63	120	UL/CUL/TUV/CE	17.95	16.95	16.19
229067CC	Phihong	PSA15LN3-240	+24V@0-0.63A	15W	90-264@47-63	240	UL/CUL/TUV/CE	17.95	16.95	16.19
230535CC	Phihong	PSA25L-301	+5V@0.2-2A; +12V@0.1-1A; -12V@0-0.3A	25W	90-264@47-63	50	UL/CUL/TUV/CE	23.49	21.15	18.99

* Primary Output

For Complete Specifications visit www.Jameco.com.

Quantity
SAVE

Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Mfr.	Manufacturer Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Price		
			Voltage@Current (min-max)	Power								1	10	25
189747CC	Tamura	79642191	+5V@1A; +12V@1A	17W	120/230@50-60	4.7x2.4x1.1	—	50	—	1.0	—	\$8.95	\$7.65	\$5.75
166967CC	Super Mac	U002512010	+5V@2.5A; +12V@1A	24.5W	100-240@50-60	3.7x2.5x1.2	—	50	—	1.0	UL/CSA/TUV	14.29	12.86	11.57

* Primary Output

30-Watt Open Frame, Low Leakage

MPS-30 Series: Single Output

- 100% full load burn-in test
- 105°C output capacitor
- Universal AC input
- High-efficiency, low heat generation
- -10°C to + 50°C working temperature (see www.Jameco.com)
- Load regulation: $\pm 1.0\%$, except 220978CC: $\pm 2.0\%$
- Line regulation: $\pm 0.5\%$, except 220978CC & 220986CC: $\pm 1.0\%$
- Inrush current: 35A@120VAC • Leakage current: 0.3mA@240V
- Three-year warranty • Size: 4.0"L x 2.59"W x 0.98"H
- Mounting holes: 3.74"L x 2.02"W x 0.12"Dia.
- Mating connectors: P/Ns 104723CC & 104432CC, pg 95

The Mean Well MPS-30 medical power supplies are low cost, high reliability open frame power supplies that feature a low leakage current of 0.3mA@240VAC. Other features of this open frame power supply are: universal input of 88-264VAC as well as 120-370VDC for battery-supported applications. Protections include short-circuit, overload, and over-voltage. They are UL and TUV approved, and carry a CE mark for use worldwide.



Call for LOWER
PRICES on Larger
Quantities



- Isolation voltage: 4000VAC
- 2.9 watts/in² maximum
- Weight: 0.3 lbs.

110-Watt Open Frame, Low Leakage

NFS110-79xxP Series: Quad Outputs

- 100% full-load burn-in
- 110W with 20 CFM of air
- Leakage current: 0.1mA@240V
- Size: 7.0"L x 4.25"W x 1.8"H
- In-rush current: 17A@120VAC
- Two-year warranty
- Mounting holes: 6.6"L x 3.75"W x 0.156"Dia.
- Mating connectors: P/Ns 104723CC, 104766CC & 104432CC, pg 95
- 0°C to +70°C working temp. (see www.Jameco.com)
- Universal AC input
- 2.1 watts/in² maximum
- Voltage adjustment: 3%
- Isolation voltage: 4000VAC
- Line regulation: $\pm 0.1\%$
- Weight: 1.3 lbs.

The NFS110-79xxP models have proven to be highly reliable and versatile for a wide range of communication and industrial applications, with a very high peak current capability on each output for drive and motor applications. These models have full medical safety approval to EN60601 and UL2601, and meet conducted emissions requirements of EN55022 level A. They are designed for use in low power medical, dental and laboratory applications.



Medical Table-Top
Power Supplies
& Wall Adapters
on Page 159



45 & 65-Watt Open Frame, Low Leakage

MPS-45 & MPS-65 Series: Single Output

- 100% full load burn-in test
- 105°C output capacitor
- Universal AC input
- High-efficiency, low heat generation
- Isolation voltage: 4000VAC
- 2.9 watts/in² max.
- Voltage adjustment: 10%
- -10°C to + 60°C working temperature (see www.Jameco.com)
- Leakage current: 0.3mA@240V
- Inrush current: 20A@120VAC
- Line regulation: $\pm 1.0\%$
- Load regulation: $\pm 2.0\%$, except 221031CC, 221049CC, 221057CC, 221129CC, 221137CC, 221145CC: $\pm 3.0\%$
- Soft-start circuit, limiting AC surge current
- Three-year warranty • Weight: 0.6 lbs.
- Size: MPS-45: 5.0"L x 3.0"W x 1.06"H; MPS-65: 5.0"L x 3.0"W x 1.65"H
- Mounting holes: 4.55"L x 2.55"W x 0.14"Dia.
- Mating connectors: P/Ns 104432CC and 104731CC, pg 95

The MeanWell MPS-45 & MPS-65 medical power supplies are low cost, high reliability open frame power supplies. Other features of these power supplies are: universal input of 88-264VAC, as well as 120-370VDC for battery-applications. Full rated power is available with 18CFM forced air convection applied. Protections include short-circuit, overload, and over-voltage.



For Complete Specifications visit www.Jameco.com.

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price		
			Voltage@Current (min-max)	Power				1	10	25
220978CC	Mean Well	MPS-30-5	+5V@0-5A	25.0W	88-264@47-63	80	UL/CUL/TUV/CE	\$33.95	\$30.56	\$27.50
220986CC	Mean Well	MPS-30-12	+12V@0-2.5A	30.0W	88-264@47-63	120	UL/CUL/TUV/CE	33.95	30.56	27.50
220994CC	Mean Well	MPS-30-15	+15V@0-2A	30.0W	88-264@47-63	150	UL/CUL/TUV/CE	33.95	30.56	27.50
221006CC	Mean Well	MPS-30-24	+24V@0-1.2A	28.8W	88-264@47-63	240	UL/CUL/TUV/CE	33.95	30.56	27.50
221014CC	Mean Well	MPS-30-27	+27V@0-1.1A	29.7W	88-264@47-63	240	UL/CUL/TUV/CE	33.95	30.56	27.50
221022CC	Mean Well	MPS-30-48	+48V@0-0.6A	28.8W	88-264@47-63	240	UL/CUL/TUV/CE	33.95	30.56	27.50
221031CC	Mean Well	MPS-45-3.3	+3.3V@0-8A	26.4W	90-264@47-440	80	UL/CUL/TUV/CE	34.95	31.46	28.31
221049CC	Mean Well	MPS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221057CC	Mean Well	MPS-45-7.5	+7.5V@0-5.4A	40.5W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221065CC	Mean Well	MPS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221073CC	Mean Well	MPS-45-13.5	+13.5V@0-3.3A	44.6W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221081CC	Mean Well	MPS-45-15	+15V@0-3A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221090CC	Mean Well	MPS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221102CC	Mean Well	MPS-45-27	+27V@0-1.7A	45.9W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221111CC	Mean Well	MPS-45-48	+48V@0-1A	48.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221129CC	Mean Well	MPS-65-3.3	+3.3V@0-12A	39.6W	90-264@47-440	80	UL/CUL/TUV/CE	35.95	32.36	29.12
221137CC	Mean Well	MPS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221145CC	Mean Well	MPS-65-7.5	+7.5V@0-8A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221153CC	Mean Well	MPS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221161CC	Mean Well	MPS-65-13.5	+13.5V@0-4.7A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	33.95	28.86	21.64
221170CC	Mean Well	MPS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221188CC	Mean Well	MPS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221196CC	Mean Well	MPS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221209CC	Mean Well	MPS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
220222CC	Artesyn	NFS110-7901P	+5.1V@0-8; +12V@0-4.5A; -5V@0-0.5A; -12V@0-0.5A	110W	90-253@47-440	50	UL/CSA/VDE/CE	104.49	94.09	89.19
220214CC	Artesyn	NFS110-7902P	+5.1V@0-8A; +12V@0-4.5A; +24V@0-3.5A; -12V@0-0.5A	110W	90-253@47-440	50	UL/CSA/VDE/CE	98.79	93.85	89.16

* Primary Output

25 to 50-Watt Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend
New Sale Qty Save Closeout

25-Watt Open Frame

NLP-25 Series: Single & Triple Outputs

- 100% full-load burn-in
- 3.3 watts/in² maximum
- Load regulation: $\pm 2.0\%$
- 0°C to +50°C working temp. (see www.Jameco.com)
- Size: 4.0"L x 2.07"W x 0.91"H
- Universal AC input
- Line regulation: $\pm 2.0\%$
- Two-year warranty



25-Watt Open Frame

PS-25 & PD-25 Series: Single & Dual Outputs

- 100% full-load burn-in
- 105°C output capacitor
- Size: 4.20"L x 2.40"W x 1.10"H
- -10°C to +60°C working temp (see www.Jameco.com)
- Universal AC input
- Inrush current: 40A @ 120VAC
- Two-year warranty



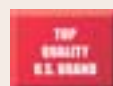
Part Number	Load Reg. (%)	Line Reg. (%)	Part Number	Load Reg. (%)	Line Reg. (%)	Part Number	Load Reg. (%)	Line Reg. (%)
212361CC	2.5	0.5	216768CC	1.0	0.3	212337CC	1.0	0.5
212353CC	2.0	0.5	212345CC	0.5	0.2	212329CC	1.0	0.5
148603CC	1.0	0.3	212311CC	4.0	1.0	148689CC	3.0	0.5



40-Watt Open Frame

NFS-40 Series: Single & Triple Outputs

- 100% full-load burn-in
- Universal AC input
- 50 watts with 20 CFM of air
- No minimum load required
- Load regulation: $\pm 2.0\%$
- Line regulation: $\pm 0.2\%$
- Inrush current: 12A@120VAC
- 0° to +70°C working temperature (see www.Jameco.com)
- Voltage adjustment: 5%
- Mating connectors: P/Ns 104432CC & 104731CC, pg 95
- Size: 5.0"L x 3.0"W x 1.2"H
- Two-year warranty



Enclosed Power Supplies on pages 145-150.

For Complete Specifications visit www.Jameco.com.

New Lower Prices

SALE

Call for LOWER PRICES on Larger Quantities

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price		
			Voltage@Current (min-max)	Power				1	10	25
218472CC	Artesyn	NLP25-7605	+5V@0-5A	25.0W	90-264@47-440	50	UL/CSA/VDE/CE	\$36.19	\$31.29	\$28.45
218481CC	Artesyn	NLP25-7612	+12V@0-2.08A	25.0W	90-264@47-440	120	UL/CSA/VDE/CE	36.19	32.59	29.29
218499CC	Artesyn	NLP25-7624	+24V@0-1.04A	25.0W	90-264@47-440	150	UL/CSA/VDE/CE	36.19	32.55	29.29
218501CC	Artesyn	NLP25-7608	+5V@0.2-2A; +12V@0.1-0.8A; -12V@0-0.1A	20.8W	90-264@47-440	50	UL/CSA/VDE/CE	\$36.19	\$31.29	\$28.45
212361CC	Mean Well	PS-25-3.3	+3.3V@0-5A	16.5W	85-264@47-63	80	UL/CUL/TUV/CE	17.95	16.95	16.19
212353CC	Mean Well	PS-25-5	+5V@0-5A	25.0W	85-264@47-63	80	UL/CUL/TUV/CE	17.95	16.95	16.19
148603CC	Mean Well	PS-25-12	+12V@0-2.1A	25.2W	85-264@47-63	100	UL/CUL/TUV/CE	18.95	17.95	17.19
216768CC	Mean Well	PS-25-15	+15V@0-1.7A	25.5W	85-264@47-63	100	UL/CUL/TUV/CE	16.95	16.10	15.30
212345CC	Mean Well	PS-25-24	+24V@0-1A	24.0W	85-264@47-63	240	UL/CUL/TUV/CE	18.95	17.95	17.19
212311CC	Mean Well	PD-2505	+5V@0.1-3A; -5V@0.1-2.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95
212337CC	Mean Well	PD-25A	+5V@0.2-2.5A; +12V@0.1-1.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	18.95	17.95	17.15
212329CC	Mean Well	PD-25B	+5V@0.2-2A; +24V@0.1-1A	25.2W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95
148689CC	Mean Well	PD-2512	+12V@0.1-1.2A; -12V@0.1-1A	24.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95
218510CC	Artesyn	NFS40-7605	+5.1V@0-6A	30.6W	85-264@47-440	100	UL/CSA/VDE/CE	40.15	36.47	33.16
218528CC	Artesyn	NFS40-7612	+12V@0-3.3A	39.6W	85-264@47-440	120	UL/CSA/VDE/CE	40.15	36.47	33.16
218536CC	Artesyn	NFS40-7624	+24V@0-1.6A	38.4W	85-264@47-440	240	UL/CSA/VDE/CE	40.15	36.47	33.16
190086CC	Artesyn	NFS40-7608	+5V@0-3A; +12V@0-2A; -12V@0-0.35A	43.2W	85-264@47-440	50	UL/CSA/VDE/CE	46.39	41.75	37.55
218552CC	Artesyn	NFS40-7610	+5V@0-3A; +15V@0-2A; -15V@0-0.35A	50.2W	85-264@47-440	50	UL/CSA/VDE/CE	46.39	41.75	37.55

* Primary Output

Special Offers = Less From Your Coffers!

To us engineers, $P=I^2R$. To the owners Profit=Revenue-Expenses. Ownership may not entirely understand our equation, but there's no reason for us to ignore ownership's! When selecting power supplies, there are many ways to save big money. Of course buying from this catalog is one of them! But there are strategies that can help you save much more without a lot of effort. Interested in saving 70% or more off market price? Check out the "Special Offers at Great Savings" on pages 138-155. Our expert buyers found these exceptional one-time buys from major power supply manufacturers, and they're passing the savings directly to you! Just look at the manufacturers in the list and stock up now!



Practical Practices
Money Saving Tips for the Engineer

Quantity
SAVE

Special Offers at Great Savings – 90-Day Warranty

New Lower Prices

Jameco Part No.	Mfr.	Manufacturer Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxD)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Price		
			Voltage@Current (min-max)	Power								1	10	25
210841CC	Power-One	MAP42-1005	+5V@0-8A	40.0W	120-240@50-60	5.0x3.0x1.3	4.6x2.6x0.16	50	1.0	0.2	UL/CSA/TUV/CE	\$19.95	\$16.96	\$12.72
204530CC	IPD Power	SRW-45-4008	+3.3V@5A; +3.3V@3A; +5V@3A; +12V@0.7A	45.0W	85-264@47-63	5.0x3.0x1.2	4.6x2.6x0.16	—	0.5	—	UL/CUL/TUV/CE	\$40.85	9.55	8.65
168225CC	Converter Concepts	STRC0006	+5V@2.7A; +12V@1.2A; +35V@0.35A; -5V@0.18A	30.0W	85-135@57-63	9.0x2.0x1.6	—	—	—	—	UL	5.95	5.35	4.79

* Primary Output

45 to 65-Watt Open-Frame Switching AC-to-DC Power Supplies

45-Watt Open Frame

PSA45 Series: Single, Triple & Quad Outputs

- Load regulation: $\pm 2.0\%$
- Inrush current: 20A @ 120VAC
- Size: 5.0"L x 3.0"W x 1.2"H
- Line regulation: $\pm 2.0\%$
- Temperature: 0° to +50°C
- Weight: 0.9 lbs.



Call for LOWER
PRICES on Larger
Quantities



- Universal input
- One-year warranty



45-Watt Open Frame

PS-45, PD-45 & PT-45 Series: Single, Dual & Triple Outputs

- 100% full-load burn-in
- 105°C output capacitor
- Line regulation: $\pm 1.0\%$
- Size: 5.0"L x 3.0"W x 1.06"H
- Universal AC input
- Voltage adjustment: 10%
- Load regulation: $\pm 3.0\%$ (except 213727CC/213719CC/213701CC: $\pm 2.0\%$)
- -10°C to +60°C working temperature (see www.Jameco.com)
- Two-year warranty
- Inrush current: 20A@120VAC



Quantity

SAVE

New Lower
Prices

SALE

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price		
			Voltage@Current (min-max)	Power				1	10	25
229075CC	Phihong	PSA45-050	+5V@0-8A	40.0W	90-264@47-63	50	UL/CSA/TUV/CE	\$29.95	\$27.95	\$25.49
229091CC	Phihong	PSA45-120	+12V@0-4A	48.0W	90-264@47-63	120	UL/CSA/TUV/CE	\$29.95	27.95	25.49
229112CC	Phihong	PSA45-240	+24V@0-2A	48.0W	90-264@47-63	240	UL/CSA/TUV/CE	\$29.95	27.95	25.49
229121CC	Phihong	PSA4531	+5V@0-4A; +12V@0-1.5A; -12V@0-0.5A	44.0W	90-264@47-63	50	UL/CSA/TUV/CE	31.95	28.79	25.89
229139CC	Phihong	PSA4534	+5V@0-4A; +15V@0-1.2A; -15V@0-0.5A	45.5W	90-264@47-63	50	UL/CSA/TUV/CE	\$31.95	29.95	27.38
229147CC	Phihong	PSA4541	+5V@0-3A; +12V@0-2A; -5V@0-0.5A; -12V@0-0.5A	47.5W	90-264@47-63	50	UL/CSA/TUV/CE	\$32.95	29.95	27.38
217331CC	Mean Well	PS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	22.95	19.51	14.63
217327CC	Mean Well	PS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
217319CC	Mean Well	PS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85
213701CC	Mean Well	PS-45-48	+48V@0-1A	48.0W	90-264@47-440	100	UL/CUL/TUV/CE	21.95	19.76	17.78
194861CC	Mean Well	PD-45A	+5V@0.4-3.2A; +12V@0.2-2	40.0W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	22.46	20.21
194870CC	Mean Well	PD-45B	+5V@0.4-3.2A; +24V@0.2-1.2A	44.8W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	21.21	15.91
88401CC	Mean Well	PT-45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0W	90-264@47-440	50	UL/CUL/TUV/CE	29.95	23.09	20.89

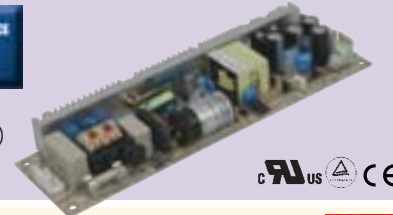
Other Versions
Available: Call
800-831-4242

50-Watt Open Frame

LPS-50 Series: Single Output

- 100% full burn-in
- Short circuit, overload, over-voltage protection
- LED power indicator
- Inrush current: 25A@115VAC
- Built-in remote ON-OFF
- Universal AC input
- Voltage adjustment: 10%
- Line regulation: $\pm 1.0\%$
- Weight: 0.5 lbs.
- Power density: 3.32 watts/in³
- Input voltage: 90-264VAC@47-63Hz, 127-370VDC
- Load regulation: $\pm 2.0\%$ (LPS-50-12); $\pm 1.0\%$ (LPS-50-24)
- Working temperature: -20 to +70°C
- Size: 7.7"L x 2.2"W x 0.9"H
- Two-year warranty

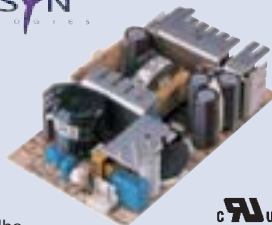
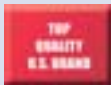
Enclosed Power Supplies
on pages 145-150.



65-Watt Open Frame

NLP65-76 Series: Single & Triple Outputs

- 100% full-load burn-in
- Universal AC input
- 75 watts with 20 CFM of air
- Load regulation: $\pm 2.0\%$
- Line regulation: $\pm 2.0\%$
- Inrush current: 17A@120VAC
- Two-year warranty
- Size: 5.0"L x 3.0"W x 1.26"H
- Weight: 0.6 lbs.
- 0° to +70°C working temperature (see www.Jameco.com)



65-Watt Open Frame

PS-65, PD-65 & PT-65 Series: Single, Dual & Triple Outputs

- 100% full-load burn-in
- Voltage adjustment: 10%
- 105°C output capacitor
- Line & load regulation: ± 1.0 to $\pm 4.0\%$ (see www.Jameco.com)
- -10°C to +60°C working temperature (see www.Jameco.com)
- Inrush current: 20A@120VAC
- Two-year warranty
- Size: 5.0"L x 3.0"W x 1.65"H
- Universal AC input
- Weight: 0.6 lbs



Call for LOWER
PRICES on Larger
Quantities

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price		
			Voltage@Current (min-max)	Power				1	10	25
252401CC	Mean Well	LPS-50-12	+12V@0-4.2A	50.4W	90-264@47-63	80	UL/CUL/TUV/CE	\$28.95	\$23.65	\$20.95
252620CC	Mean Well	LPS-50-24	+24V@0-2.1A	50.4W	90-264@47-63	80	UL/CUL/TUV/CE	28.95	23.65	20.95
218561CC	Artesyn	NLP65-7605	+5V@0-13A	65.0W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	52.99	48.16	43.78
218579CC	Artesyn	NLP65-7612	+12V@0-5.4A	64.8W	85-264@47-63	120	UL/CUL/CSA/VDE/CE	\$61.19	52.65	47.85
218587CC	Artesyn	NLP65-7608	+5V@0-7.5A; +12V@0-2.5A; -12V@0-0.65A	75.3W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	\$61.19	52.95	48.13
201937CC	Mean Well	PS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
148638CC	Mean Well	PS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
216750CC	Mean Well	PS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	24.95	21.21	15.91
148646CC	Mean Well	PS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
201945CC	Mean Well	PS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
201953CC	Mean Well	PS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99
194888CC	Mean Well	PD-65A	+5V@0.4-7A; +12V@0.2-3.2A	61.1W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09
194896CC	Mean Well	PD-65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09
216733CC	Mean Well	PT-65B	+5V@0.4-5.5A; +12V@0.2-2.5A; -12V@0-0.5A	63.5W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29
216725CC	Mean Well	PT-65C	+5V@0.4-5.5A; +15V@0.2-2A; -15V@0-0.5A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29

* Primary Output

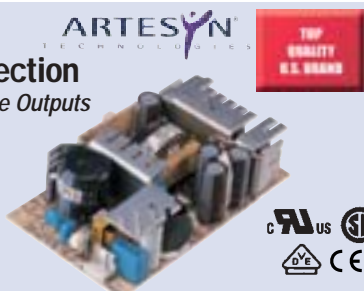
65 to 100W Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend
New Sale Qty Save Closeout

65-Watt Open Frame with Power Factor Correction

NLP65-96 Series: Single & Triple Outputs

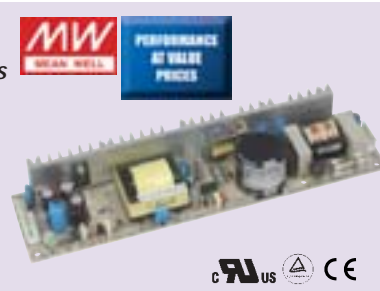
- 100% full-load burn-in
- Universal AC input
- Power Factor Correction
- No minimum load required
- 75 watts with 20 CFM of air
- Load regulation: $\pm 2.0\%$
- Line regulation: $\pm 2.0\%$
- Inrush current: 17A@120VAC
- 0° to +70°C working temperature (see www.Jameco.com)
- Two-year warranty • Weight: 0.6 lbs. • Size: 5.0"L x 3.0"W x 1.26"H



75-Watt Open Frame

LPS-75 Series: Single Outputs

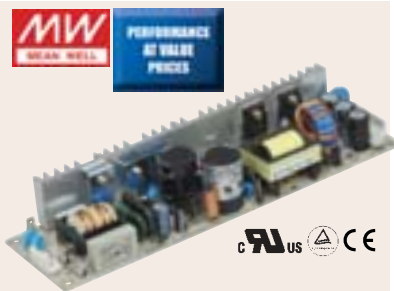
- 100% full-load burn-in
- Universal AC input
- Built-in remote ON/OFF
- Line regulation: $\pm 1.0\%$
- Load regulation: (244718CC) $\pm 1.0\%$; (244726CC) $\pm 2.0\%$
- Inrush current: 24A@120VAC
- Voltage adjustment: 10%
- -20°C to +60°C working temperature (see www.Jameco.com)
- Two-year warranty • Weight: 0.5 lbs. • Size: 8.74"L x 2.16"W x 1.18"H



100-Watt Open Frame

LPS-100 Series: Single Output

- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- 105°C output capacitor
- Load regulation: $\pm 1.5\%$, except 173462CC: $\pm 0.5\%$
- Line regulation: $\pm 0.5\%$
- Inrush current: 30A@120VAC
- Voltage adjustment: 10%
- Three-year warranty • Weight: 0.8 lbs. • Size: 8.74"L x 2.44" x 1.25"W
- -10°C to +60°C working temperature (see www.Jameco.com)



Enclosed Power Supplies on pages 145-150



Enclosed Power Supplies
on pages 145-150.

For Complete Specifications visit www.Jameco.com.

New Lower
Prices

Call for LOWER
PRICES on Larger
Quantities

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price		
			Voltage@Current (min-max)	Power				1	10	25
218595CC	Artesyn	NLP65-9612	+12V@0-5.4A	64.8W	85-264@47-63	120	UL/CUL/CSA/VDE/CE	\$71.39	\$61.49	\$50.82
218608CC	Artesyn	NLP65-9624	+24V@0-2.7A	64.8W	85-264@47-63	240	UL/CUL/CSA/VDE/CE	61.79	56.18	51.08
218616CC	Artesyn	NLP65-9608	+5V@0-7.5A; +12V@0-2.5A; -12V@0-0.65A	75.3W	85-264@47-63	50	UL/CUL/CSA/VDE/CE	\$71.39	61.45	50.79
244718CC	Mean Well	LPS-75-12	+12V@0-6.8A	74.4W	90-264@47-63	100	UL/CUL/TUV/CE	38.95	35.59	31.99
244726CC	Mean Well	LPS-75-24	+24V@0-3.5A	76.8W	90-264@47-63	120	UL/CUL/TUV/CE	38.95	35.59	31.99
173471CC	Mean Well	LPS-100-12	+12V@0-8.4A	100.8W	88-264@47-63	100	UL/CUL/TUV/CE	52.95	48.39	42.89
173462CC	Mean Well	LPS-100-24	+24V@0-4.2A	100.8W	88-264@47-63	150	UL/CUL/TUV/CE	52.95	48.39	42.89
216709CC	Mean Well	LPS-100-48	+48V@0-2.1A	100.8W	88-264@47-63	200	UL/CUL/TUV/CE	52.95	48.39	42.89

* Primary Output

Other Versions
Available: Call
800-831-4242

Special Offers at Great Savings – 90-Day Warranty

New Lower
Prices

SALE

Quantity
SAVE

Jameco Part No.	Mfr.	Manufacturer Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Price		
			Voltage@Current (min-max)	Power								1	10	25
169068CC	Autec	UPS65-1051	+5V@0.2-13A	65.0W	115/230@50-60	6.0x3.5x1.5	4.8x3.2x0.16	50	1.0	0.5	UL/CSA/VDE	\$11.95	\$10.16	\$7.62
237024CC	Lite-On	PA-1101-1	+12V@2-8.5A	102.0W	85-264@47-63	6.0x4.0x1.3	—	1200	10.0	1.0	UL/CUL/TUV/CE	39.95	33.95	25.49
203326CC	EOS	VLT100-1004†	+48V@0.2-2.1A	100.0W	100-240@50-60	5.0x3.0x1.0	4.6x2.6x0.16	480	3.0	0.3	UL/CUL/VDE/CE	27.95	23.75	17.85
171731CC	Delta	DPS-60MPB	+3.3V@0.8-8A; +5V@1-9A;	65.0W	90-270@47-63	5.8x3.3x1.4	—	50	2.0	2.0	UL/CUL/TUV	6.95	5.89	4.45
196824CC	Encad	U006612010	+5.2V@3A; +24V@2A	65.0W	90-250@50-60	6.3x3.9x1.5	—	—	—	—	UL/CUL/TUV	15.95	13.56	10.17
235088CC	Artesyn Power	NLP65-7629	+5V@0-7A; +12V@0-2.5A +12V@0.8A	65.0W	85-264@47-63	5.0x3.0x1.3	4.6x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/CE	\$61.69	28.35	25.75
226211CC	Phihong	PSA-60-302	+5V@6A; +12V@1.2A; -12V@1.2A	60.0W	100-240@50-60	5.0x3.0x1.6	4.5x2.5x0.15	50	2.0	2.0	UL/CSA/VDE	29.95	25.46	19.09
215706CC	Mean Well	PT-65D	+5V@0.5-5A; +12V@0.2-4A; +24V@0.2-1.3A	65.0W	90-264@47-440	5.0x3.0x1.5	4.6x2.6x0.15	50	2.0	1.0	UL/CUL/TUV/CE	24.95	22.45	20.19
229850CC	IPD Power	SRW-65-3003	+5V@5A; +15V@3.5A; -15V@1A	65.0W	85-264@47-63	6.0x4.0x1.1	5.7x3.5x0.15	50	1.0	—	UL/CUL/TUV/CE	22.95	20.69	18.59
202876CC	Power-One	MAP80-4003	+5V@14A; +15V@3.5A; -5V@1A; -15V@1A	80.0W	100/230@47-63	7.2x4.3x1.8	6.7x3.2x0.17	50	1.0	0.2	UL/CSA/TUV/CE	\$22.95	19.95	18.76

* Primary Output

† Power Factor Correction

Happen to find a like product at a lower print-advertised price?

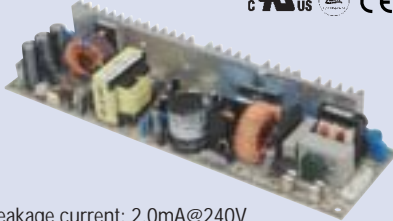
Jameco's Low-Price Guarantee

We'll beat that price by 10% right down to our cost. Just call us. It's that simple!

100-Watt Open Frame With Power Factor Correction

LPP-100 Series: Single Output

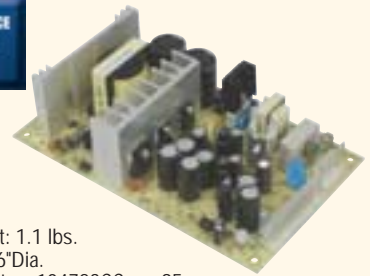
- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- 4.4 watts/in³ maximum
- 105°C output capacitor
- Power Factor Correction
- Load regulation: ±0.5%
- Line regulation: ±0.5%
- Inrush current: 40A@120VAC
- Isolation voltage: 3000VAC
- Voltage adjustment: 10%
- Weight: 0.8 lbs.
- Mounting holes: 8.34"L x 2.04"W x 0.13"Dia.
- Mating connectors: P/Ns 215950CC & 215976CC, pg 95
- -10°C to +60°C working temperature (see www.Jameco.com)



100-Watt Open Frame with Power Factor Correction

PPQ-100 Series: Quad Outputs

- 100% full-load burn-in
- Auto-switch AC input
- 2.3 watts/in³ maximum
- Power Factor Correction
- 105°C output capacitor
- Load regulation: ±2.0%
- Line regulation: ±1.0%
- Inrush current: 40A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 3.5mA@240V
- Voltage adjustment: 10%
- Size: 7.0"L x 4.25"W x 1.6"H
- Mounting holes: 6.5"L x 3.75"W x 0.16"Dia.
- Mating connectors: P/N 104715CC & two 104723CC, pg 95
- -10°C to +60°C working temperature (see www.Jameco.com)
- Three-year warranty



110-Watt Open Frame

NFS110-76 Series: Single & Quad Outputs

- 100% full-load burn-in
- Universal AC input
- 110W with 20 CFM of air
- 2.8 watts/in³ maximum
- Load regulation: ±2.0%
- Line regulation: ±0.1%
- Inrush current: 35A@120VAC
- Isolation voltage: 3000VAC
- Leakage current: 0.2mA@240V
- Voltage adjustment: 3%
- Weight: 1.3 lbs.
- Mounting holes: 6.6"L x 3.75"W x 0.16"Dia.
- Mating connectors: P/Ns 104723CC, 104766CC & 104432CC, pg 95
- 0°C to +70°C working temp. (see www.Jameco.com)



- Two-year warranty
- Size: 7.0"L x 4.25"W x 1.8"H

110-Watt Open Frame With Power Factor Correction

NLP110 Series: Single & Triple Outputs

- 100% full-load burn-in
- Universal AC input
- Power Factor Correction
- 6 watts/in³ maximum
- 105°C output capacitor
- Load regulation: ±2.0%
- Line regulation: ±2.0%
- Inrush current: 18A@120VAC
- Isolation voltage: 3000VAC
- Voltage adjustment: 3%
- Two-year warranty
- Size: 6.5"L x 3.0"W x 1.26"H
- Mating connectors: P/Ns 104432CC & 2 ea. 104731CC, pg 95
- 0°C to +70°C working temp. (see www.Jameco.com)



- Leakage current: 0.45mA@240V
- 110W with 20 CFM of air
- Weight: 0.6 lbs.
- Mounting holes: 6.05"L x 2.55"W

For Complete Specifications visit
www.Jameco.com.

Enclosed Power Supplies
on pages 145-150.

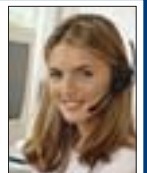
Jameco Part No.	Manufacturer	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price		
			Voltage@Current (min-max)	Power				1	10	25
216688CC	Mean Well	LPP-100-12	+12V@0-8.5A	102.0W	85-264@47-63	100	UL/CUL/TUV/CE	\$57.39	\$51.65	\$46.49
216670CC	Mean Well	LPP-100-15	+15V@0-6.7A	100.5W	85-264@47-63	100	UL/CUL/TUV/CE	\$59.95	45.19	41.07
204610CC	Mean Well	LPP-100-24	+24V@0-4.2A	100.8W	85-264@47-63	150	UL/CUL/TUV/CE	64.95	55.21	41.41
216653CC	Mean Well	LPP-100-48	+48V@0-2.1A	100.8W	85-264@47-63	250	UL/CUL/TUV/CE	45.85	41.69	37.90
217277CC	Mean Well	PPQ-100B	+5V@2-10A; +12V@0.3-3.4A; -12V@0-0.6A; -5V@0-0.6A	101.0W	90-264@47-63	100	UL/CUL/TUV/CE	\$63.49	51.45	46.78
218982CC	Artesyn	NFS110-7612	+12V@0-7A	84.0W	85-264@47-440	120	UL/CUL/CSA/VDE/CE	93.99	85.43	77.66
218974CC	Artesyn	NFS110-7624	+24V@0-3.5A	84.0W	85-264@47-440	240	UL/CUL/CSA/VDE/CE	93.99	85.43	77.66
218966CC	Artesyn	NFS110-7602P	+5.1V@0-8A; +12V@0-4.5A; -5V@0-0.5A; -12V@0-0.5A	103.3W	85-264@47-440	50	UL/CUL/CSA/VDE/CE	101.15	90.99	86.29
220231CC	Artesyn	NFS110-7604	+5.1V@0-8A; +15V@0-4A; -5V@0-0.5A; -15V@0-0.5A	110.6W	85-264@47-440	50	UL/CUL/CSA/VDE/CE	93.99	85.43	77.66
218915CC	Artesyn	NLP110-9605	+5V@0.5-15A	75.0W	90-264@47-63	50	UL/CUL/CSA/VDE	73.09	66.46	60.41
218923CC	Artesyn	NLP110-9612	+12V@0.3-6.4A	76.8W	90-264@47-63	120	UL/CUL/CSA/VDE	80.85	73.05	66.41
218931CC	Artesyn	NLP110-9624	+24V@0.2-3.2A	76.8W	90-264@47-63	240	UL/CUL/CSA/VDE	80.69	73.34	66.67
218940CC	Artesyn	NLP110-9693	+3.3V@0.2-13A; +5V@0.5-13A; +12V@0-0.65A	110.0W	90-264@47-63	50	UL/CUL/CSA/VDE	80.69	73.34	66.67
218958CC	Artesyn	NLP110-9608	+5V@0.2-13A; +12V@0.2-6.5A; -12V@0-0.65A	110.0W	90-264@47-63	120	UL/CUL/CSA/VDE	\$401.99	87.89	79.88

* Primary Output

Even lower OEM pricing for larger orders!

Corporate Customers

Call 1-800-831-4242 for details today.



125 to 350-Watt Open-Frame Switching AC-to-DC Power

Color Code Legend
New Sale Qty. Save Pull Closeout

125-Watt Open Frame With Power Factor Correction

- 100% full-load burn-in
- Line regulation: $\pm 0.5\%$
- Inrush current: 40A@230VAC (max.)
- Universal AC input/full range
- Leakage current: $< 2\text{mA}@240\text{V}$
- Size: 5.0"L x 2.4"W x 1.4"H

PPS-125 Series: Single Output

- Load regulation: $\pm 1.0\%$
- -40° to +85°C working temperature (see www.Jameco.com)

PPT-125 Series: Triple Output

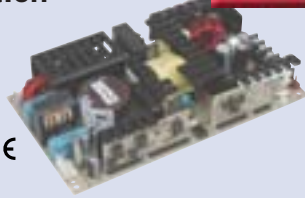
- Load regulation: $\pm 3.0\%$
- -20° to +60°C working temperature (see www.Jameco.com)



150-Watt Open Frame With Power Factor Correction

NLP150 Series: Single & Quad Output

- Parallel operation (current sharing)
- Universal AC input
- 100% full-load burn-in
- Power Factor Correction
- Line regulation: $\pm 2.0\%$
- Load regulation: $\pm 2.0\%$
- Inrush current: 40A@120VAC
- Isolation voltage: 3000VAC
- Mating connectors: P/N 104432CC, pg 95 & 103587CC, pg 108
- 0° to +70°C working temperature (see www.Jameco.com)
- Size: 6.8"L x 3.8"W x 1.26"H
- Leakage current: 1mA@240V
- Two-year warranty



150-Watt Open Frame With Power Factor Correction

LPP-150 Series: Single Output

- Power Factor Correction
- 100% full-load burn-in
- Leakage current: 3.5mA@240V
- Voltage adjustment: 10%
- Line regulation: $\pm 0.5\%$
- Load regulation: 213680CC: $\pm 1.0\%$; 213671CC & 216645CC: $\pm 0.5\%$
- Inrush current: 40A@120VAC
- Isolation voltage: 3000VAC
- 105°C output capacitor
- Auto-switch AC input
- Mating connectors: P/N 215950CC & 215968CC, pg 95
- -10°C to +60°C working temperature (see www.Jameco.com)
- Size: 8.74"L x 2.95"W x 1.61"H
- Three-year warranty



Enclosed Power Supplies
on pages 145-150.

For Complete Specifications visit www.Jameco.com.

SALE

Call for LOWER
PRICES on Larger
Quantities

Jameco Part No.	Manufacturer	Manufacturer Product Number	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Price		
			Voltage@Current (min-max)	Power				1	10	25
301428CC	Mean Well	PPS-125-24	+24V@0-5.2A	124.8W	90-264@47-63	150	UL/CUL/TUV/CE	\$93.99	\$79.84	\$74.45
301452CC	Mean Well	PPS-125-27	+27V@0-4.6A	124.2W	90-264@47-63	150	UL/CUL/TUV/CE	93.99	79.84	74.45
301479CC	Mean Well	PPS-125-48	+48V@0-2.6A	124.8W	90-264@47-63	250	UL/CUL/TUV/CE	93.99	79.84	74.45
301487CC	Mean Well	PPT-125B	+5V@1-14.4A; +12V@.3-3.8A; -12V@.05-.63A	124.5W	90-264@47-63	100	UL/CUL/TUV/CE	103.55	79.86	74.45
301495CC	Mean Well	PPT-125C	+5V@1-13.8A; +15V@.25-3.1A; -15V@.05-.63A	125.1W	90-264@47-63	100	UL/CUL/TUV/CE	103.55	79.86	74.45
218991CC	Artesyn	NLP150L-96S3	+3.3V@1-22A	72.6W	90-264@47-63	50	UL/CSA/VDE/CE	85.55	77.77	70.70
219011CC	Artesyn	NLP150L-96S5	+5.1V@1-22A	112.2W	90-264@47-63	50	UL/CSA/VDE/CE	85.55	77.77	70.70
219002CC	Artesyn	NLP150L-96S8	+24V@0.15-4.6A	110.4W	90-264@47-63	240	UL/CSA/VDE/CE	90.69	82.44	74.95
219029CC	Artesyn	NLP150L-96Q5366	+3.3V@0.5-10A; +5.1V@1.5-20A; +12V@0-2A; +12V@0-0.65A	120.0W	90-264@47-63	50	UL/CSA/VDE/CE	85.55	77.77	70.70
213680CC	Mean Well	LPP-150-12	+12V@0-12.5A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	71.95	53.89	47.29
213671CC	Mean Well	LPP-150-24	+24V@0-6.3A	150.0W	85-264@47-63	150	UL/CUL/TUV/CE	71.95	53.89	47.29
216645CC	Mean Well	LPP-150-48	+48V@0-3.2A	153.6W	85-264@47-63	250	UL/CUL/TUV/CE	71.95	53.89	47.29

* Primary Output

Special Offers at Great Savings – 90-Day Warranty

New Lower Prices

SALE

Quantity
SAVE

Jameco Part No.	Mfr.	Manufacturer Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes Inches (LxWxDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Price		
			Voltage@Current (min-max)	Power								1	10	25
196795CC	Cherokee	QP2A2-1A-A	+5V@40A; +12V@2.5A	230.0W	115/230@50-60	10.0x4.3x2.5	7.5x3.0x0.15	50	0.25	0.25	TUV	\$14.95	\$12.71	\$9.53
204581CC	Digital Pwr	UP300-201	+5V@1-40A; +12V@0.2-12A	300.0W	90-250@47-63	8.0x4.5x2.0	7.6x3.2x0.10	50	1.0	0.2	UL/CUL/CSA/TUV/CE	\$27.25	20.39	18.55
208733CC	Digital Pwr	USS256-351	+5.5V@1.8A; +12.9V@10A; +12.9V@0.9A	250.0W	90-250@47-63	10.0x4.5x1.9	—	—	—	—	UL/CUL/CSA/TUV/CE	\$42.39	3.45	3.15
220193CC	Cherokee	MQT154A1†	+3.3V@8A; +5V@26A; +12V@6A; -12V@1A	150.0W	100-240@47-63	8.0x4.3x1.5	6.4x2.5x0.13	—	—	—	UL/CSA	28.95	23.19	17.39
196701CC	Astec	NTQ123	+3.3V@0-25A; +5V@2-24A +12V@0-2A; -12V@0-1A	120.0W	85-264@47-63	7.0x4.0x1.5	—	50	—	—	UL/CSA/VDE/CE	28.95	25.95	19.95
211297CC	Power-One	MAP110-4300†	+3.3V@15A; +5V@8A; +12V@1A; -12V@1A	110.0W	85-264@47-63	7.0x4.3x2.0	6.5x2.8x0.17	30	0.7	0.3	UL/CSA/TUV/CE	24.95	21.21	15.91
210905CC	Lambda	WA305-00-03	+5V@50A; +12V@10A; +24V@4A; -5.2V@4A; -12V@4A	300.0W	85-264@45-440	11.9x5.0x1.8	8.1x2.5x0.16	50	1.0	0.2	UL/CSA/CE	49.95	44.96	40.46
196461CC	TODD	MAX3541205AC	+5V@50A; +12V@12A; -5V@2A; -12V@4A	350.0W	115/230@50-60	9.0x5.0x2.5	6.5x3.9x0.08	50	1.0	1.0	TUV	47.95	40.79	30.59

* Primary Output

† 8" power cable included

Jameco Special Values

Sale items highlighted in yellow. Great quantity discounts highlighted in green.

25-Watt Enclosed

S-25 Series: Single Output

- 100% full-load burn-in
- No minimum load required
- Voltage adjustment: 10%
- 105°C output capacitor
- Mating connector: 103587CC, pg 108
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222121CC, 222156CC, 222172CC & 222164CC; see www.Jameco.com for specifications
- Universal AC input
- 1.2 watts/in² maximum
- Input: 88-264VAC @ 47-63Hz
- Two-year warranty



60-Watt Enclosed

S-60, D-60, T-60 & Q-60 Series: Single, Dual, Triple & Quad Outputs

- 100% full-load burn-in
- 105°C output capacitor
- Voltage adjustment: 10%
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temp. (see www.Jameco.com)
- Mounting hardware: use P/Ns 222130CC, 222156CC & 222172CC (see www.Jameco.com)
- Universal AC input
- 1.7 watts/in² maximum
- Input: 88-264VAC @ 47-63Hz
- Two-year warranty

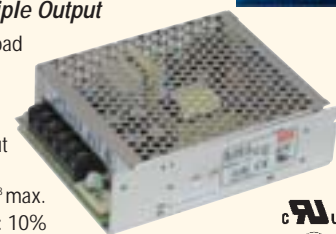


These highly popular series from Mean Well feature overload protection to 150% of rated load with auto-recovery, and over-voltage protection to 135% of rated output voltage. Input AC surge current is limited to a safe level by a novel soft-start circuit. Working temperature is -10°C to 60°C, with derating below 0°C and above 45°C. Safety standards include UL1012, UL1950, IEC950 and TUV EN60950, and these products all carry the European CE mark. The DC output voltage can be adjusted ±10% of nominal rating.

40-Watt Enclosed

S-40 & T-40 Series: Single & Triple Output

- 100% full-load burn-in
- Universal AC input
- 105°C output capacitor
- 1.6 watts/in² max.
- Voltage adj.: 10%
- Two-year warranty
- Input: 88-264VAC @ 47-63Hz
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temp. (see www.Jameco.com)
- Mounting hardware: use P/Ns 222121CC, 222156CC & 222172CC (see www.Jameco.com)



The S-40 and T-40 series derive their impressive reliability from a conservative design, the exclusive use of high-quality components, and are assured to operate correctly anywhere in the world. These switchers feature universal input voltage ranges of 85-264VAC and 120-370VDC. Protection includes short-circuit, overload and over-voltage; and a novel soft-start circuit limits the AC surge current. Manufacturer guaranteed safety standards comprise UL1012, UL1950 and TUV EN60950; and these products have earned the European CE mark.

Open-Frame Power Supplies
on pages 138-144.

For Complete Specifications visit www.Jameco.com.

SALE

Call for LOWER
PRICES on Larger
Quantities

Jameco Part No.	Manufacturer	Manufacturer Product No.	Output	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)					1	10	25
123246CC	Mean Well	S-25-5	+5V@0-5A	50	1	0.5	UL/TUV/CE	\$39.95	\$32.10	\$28.90
123254CC	Mean Well	S-25-12	+12V@0-2.1A	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123262CC	Mean Well	S-25-15	+15V@0-1.7A	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123271CC	Mean Well	S-25-24	+24V@0-1.1A	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123289CC	Mean Well	S-40-5	+5V@0-8A	75	1	0.5	UL/CUL/TUV/CE	44.95	38.60	34.70
123297CC	Mean Well	S-40-12	+12V@0-3.5A	100	0.5	0.5	UL/CUL/TUV/CE	44.95	38.60	34.70
202139CC	Mean Well	S-40-15	+15V@0-2.8A	100	0.5	0.5	UL/CUL/TUV/CE	44.95	38.60	34.70
123318CC	Mean Well	S-40-24	+24V@0-1.8A	100	0.5	0.5	UL/CUL/TUV/CE	44.95	38.60	34.70
201988CC	Mean Well	T-40A	+5V@0.6-3A; +12V@0.2-2A; -5V@0.1-0.5A	100	0.5	0.5	UL/CUL/CE	49.95	42.10	37.90
201996CC	Mean Well	T-40B	+5V@0.6-3A; +12V@0.2-2A; -12V@0.1-0.5A	100	0.5	0.5	UL/CUL/CE	49.95	42.10	37.90
202008CC	Mean Well	T-40C	+5V@0.6-3A; +15V@0.2-1.5A; -15V@0.1-0.5A	100	0.5	0.5	UL/CUL/CE	49.95	42.10	37.90
123326CC	Mean Well	S-60-5	+5V@0-12A	120	1	0.5	UL/CUL/TUV/CE	53.95	48.55	42.99
123334CC	Mean Well	S-60-12	+12V@0-5A	120	0.5	0.5	UL/CUL/TUV/CE	53.95	41.50	37.30
123342CC	Mean Well	S-60-15	+15V@0-4A	150	0.5	0.5	UL/CUL/TUV/CE	53.95	41.50	37.30
123351CC	Mean Well	S-60-24	+24V@0-2.5A	150	0.5	0.5	UL/CUL/TUV/CE	53.95	41.50	37.30
123457CC	Mean Well	D-60A	+5V@0.3-4A; +12V@0.2-3A	75	0.5	0.5	UL/CUL/TUV/CE	54.95	44.10	39.70
123465CC	Mean Well	D-60B	+5V@0.3-3A; +24V@0.2-1.8A	75	0.5	0.5	UL/CUL/TUV/CE	54.95	44.10	39.70
123473CC	Mean Well	T-60A	+5V@0.5-5A; +12V@0.2-2.5A; -5V@0-0.5A	100	1	0.5	UL/CUL/TUV/CE	52.95	42.94	38.65
123481CC	Mean Well	T-60B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0-0.5A	100	1	0.5	UL/CUL/TUV/CE	57.95	47.00	42.30
123490CC	Mean Well	T-60C	+5V@0.5-5A; +15V@0.2-2A; -15V@0-0.5A	100	1	0.5	UL/CUL/TUV/CE	57.95	47.00	42.30
147045CC	Mean Well	Q-60B	+5V@0.5-5.5A; +12V@0.1-2A; -5V@0-0.5A; -12V@0-0.5A	100	0.5	0.5	UL/CUL	59.95	49.90	44.90

* Primary Output

Special Offers at Great Savings – 90-Day Warranty

SALE

New Lower Prices

Jameco Part No.	Manufacturer	Manufacturer Product No.	Output	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)					1	10	25
211115CC	Fortron	SU65P10C	+5V@0-10A	50	—	0.5	UL/CSA/TUV/CE	\$3.81 \$2.05	\$1.85	\$1.69
205794CC	Volgen	PRK15U-1212W	+12V@1A; +12V@0.5A	170	1	0.4	UL/CSA	10.89	9.89	8.99

* Primary Output

30-Day Money-Back Guarantee If you're not satisfied, we'll take it back! Details on page 246.

75 to 100-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend
New Sale Qty. Save Closeout

75-Watt Enclosed with Power Factor Correction

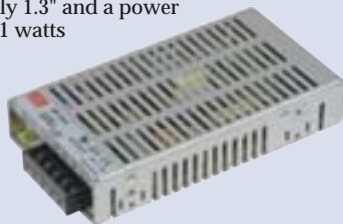


SP-75 Series: Single Output

- 100% full-load burn-in
- 105°C output capacitor
- Power Factor Correction
- Input: 85-264VAC@47-63Hz
- No minimum load required
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222148CC, 222156CC, 222164CC & 222172CC; (see www.Jameco.com for specifications)
- Universal AC input
- 2.1 watts/in³ max.
- Voltage adj.: 10%
- Three-year warranty



The Mean Well SP-75 series features input Power Factor Correction that meets EN61000-3-2, required in Europe for power supplies 75 watts and above. They are approved by UL and TUV, and carry the CE mark for use worldwide. The high-density enclosed packaging results in a profile of only 1.3" and a power density of 2.1 watts per inch³.



100-Watt Enclosed



S-100F Series: Single Output

- 100% full-load burn-in
- 105°C output capacitor
- No minimum load required
- Input: 88-132/176-264VAC@47-63Hz
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temp. (see www.Jameco.com)
- Mounting hardware: use P/Ns 222130CC, 222156CC and 222172CC (see www.Jameco.com for specifications)
- 2.3 watts/in³ max.
- Voltage adj.: 10%
- Two-year warranty



100-Watt Enclosed With Power Factor Correction



SP-100 & TP-100 Series: Single & Triple Outputs

- 100% full-load burn-in
- 105°C output capacitor
- Input: 86-264VAC@47-63Hz
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temp. (see www.Jameco.com)
- Mounting hardware use P/Ns 222130CC, 222164CC, 222156CC, 222172CC & 222181CC (see www.Jameco.com for specifications)
- Universal AC input
- Power Factor Correction
- Voltage adjustment: 10%
- Three-year warranty



Mean Well's family of 100-watt enclosed switchers feature input Power Factor Correction of 0.98 at 115VAC that complies with EN61000-3-2, required in Europe for power supplies 75 watts and above. They are approved by UL and TUV, and carry the CE mark, for use worldwide. The high-density enclosed packaging results in a profile of only 1.8" and a power density of 2.0 watts per inch³.

Open-Frame Power Supplies on pages 138-144.

For Complete Specifications visit www.Jameco.com.

New Lower Prices

SALE

Call for LOWER PRICES on Larger Quantities

Jameco Part No.	Manufacturer	Manufacturer Product No.	Output	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)					1	10	25
194829CC	Mean Well	SP-75-5	+5V@0-15A	80	1	0.5	UL/CUL/TUV/CE	\$59.95	\$53.96	\$48.56
194837CC	Mean Well	SP-75-12	+12V@0-6.3A	80	0.5	0.5	UL/CUL/TUV/CE	69.95	61.05	53.89
194845CC	Mean Well	SP-75-15	+15V@0-5A	80	0.5	0.5	UL/CUL/TUV/CE	69.95	61.05	53.89
194853CC	Mean Well	SP-75-24	+24V@0-3.2A	100	0.5	0.5	UL/CUL/TUV/CE	69.95	61.05	53.89
216805CC	Mean Well	SP-75-48	+48V@0-1.6A	100	0.5	0.5	UL/CUL/TUV/CE	69.95	64.95	58.46
201961CC	Mean Well	S-100F-5	+5V@0-20A	100	1	0.5	UL/TUV/CE	66.95	49.90	44.90
123385CC	Mean Well	S-100F-12	+12V@0-8.5A	125	0.5	0.5	UL/TUV/CE	66.95	49.90	44.90
212450CC	Mean Well	S-100F-15	+15V@0-6.7A	125	0.5	0.5	UL/TUV/CE	66.95	49.90	44.90
201970CC	Mean Well	S-100F-24	+24V@0-4.5A	150	0.5	0.5	UL/TUV/CE	66.95	49.90	44.90
216792CC	Mean Well	S-100F-48	+48V@0-2.2A	150	0.5	0.5	UL/TUV/CE	66.95	49.90	44.90
212441CC	Mean Well	SP-100-3.3	+3.3V@0-20A	100	1	0.5	UL/CUL/TUV/CE	47.49	40.55	36.85
194790CC	Mean Well	SP-100-5	+5V@0-20A	100	1	0.5	UL/CUL/TUV/CE	81.95	79.70	71.70
194802CC	Mean Well	SP-100-12	+12V@0-8.5A	100	0.5	0.5	UL/CUL/TUV/CE	81.95	79.70	71.70
212433CC	Mean Well	SP-100-15	+15V@0-6.7A	100	0.5	0.5	UL/CUL/TUV/CE	59.95	53.96	48.56
194811CC	Mean Well	SP-100-24	+24V@0-4.2A	150	0.5	0.5	UL/CUL/TUV/CE	81.95	79.70	71.70
212425CC	Mean Well	SP-100-48	+48V@0-2.1A	250	0.5	0.1	UL/CUL/TUV/CE	69.95	59.46	44.59
213778CC	Mean Well	TP-100C	+5V@3-10A; +15V@0.4-3A; -15V@0-0.6A	100	3	1	UL/CUL/TUV/CE	99.95	89.96	80.96

* Primary Output

Special Offers at Great Savings - 90-Day Warranty

New Lower Prices

SALE

Jameco Part No.	Manufacturer	Manufacturer Product No.	Output	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)					1	10	25
205858CC	Volgen	JRK-115B	+5V@4.5A; +15V@3.5A; +24V@0.4A; -5V@1.6A; -15V@1.5A	100	0.8	0.4	—	49.69	\$17.99	\$16.37

* Primary Output

Phone 1-800-831-8242

Online www.Jameco.com

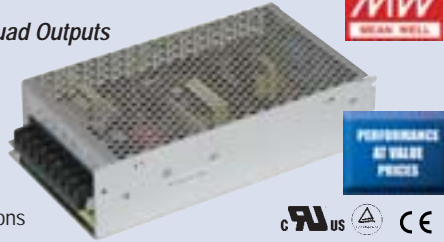
Fax 1-800-237-6948

Order Anytime 24x7x365

120-Watt Enclosed

D-120, T-120 & Q-120 Series: Dual, Triple & Quad Outputs

- 100% full-load burn-in
- 105°C output capacitor
- Two-year warranty
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temp.
(see www.Jameco.com for output derating)
- Mounting hardware: use P/Ns 222130CC, 222156CC and 222172CC; see www.Jameco.com for specifications



150-Watt Enclosed

S-150 Series: Single Output

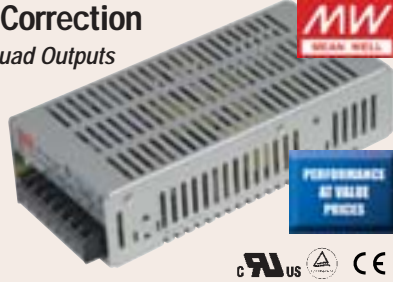
- 100% full-load burn-in
- No minimum load required
- Two-year warranty
- Voltage adj.: 10%
- 105°C output capacitor
- Input: 88-132/176-264@47-63Hz
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temperature
(see www.Jameco.com)
- Mounting hardware: use P/Ns 222130CC, 222156CC & 222172CC (see www.Jameco.com)



150-Watt Enclosed with Power Factor Correction

SP-150, TP-150 & QP-150 Series: Single, Triple & Quad Outputs

- 100% full-load burn-in
- Universal AC input
- Power Factor Correction
- 105°C output capacitor
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temperature
(see www.Jameco.com)
- Mounting hardware: use P/Ns 222130CC, 222156CC, 222164CC, 222181CC & 222172CC
(see www.Jameco.com for specifications)



These advanced switchers are part of Mean Well's family of premium power supplies that carry an unusually long three-year manufacturer's warranty. Their performance, reliability and low cost result from a modern state-of-the-art design using integrated components. The SP-150, TP-150 and QP-150 offer input Power Factor Correction that meets EN61000-3-2.



Open-Frame Power Supplies
on pages 138-144

Open-Frame Power Supplies
on pages 138-144.

For Complete Specifications visit www.Jameco.com.

Call for LOWER
PRICES on Larger
Quantities

SALE

Jameco Part No.	Manufacturer	Manufacturer Product No.	Output	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)					1	10	25
132409CC	Mean Well	D-120A	5V@2-12A; 12V@0.5-5A	60	0.5	0.5	UL/CUL/TUV/CE	\$69.95	\$58.29	\$51.69
132396CC	Mean Well	D-120B	5V@2-6A; 24V@0.4-4A	60	0.5	0.5	UL/CUL/TUV/CE	69.95	58.29	51.69
301508CC	Mean Well	T-120B	5V@2-12A; 12V@0.5-5A; -12V@0.2-1A	80	0.5	0.5	UL/CUL/TUV/CE	74.95	61.04	53.89
301516CC	Mean Well	T-120C	5V@2-12A; 15V@0.5-5A; -15V@0.2-1A	80	0.5	0.5	UL/CUL/TUV/CE	74.95	61.04	53.89
132388CC	Mean Well	Q-120B	5V@2-11A; -5V@0.2-1A; 12V@0.5-4A; -12V@0.2-1A	80	0.5	0.5	UL/CUL/TUV/CE	79.95	63.79	56.09
132370CC	Mean Well	Q-120D	5V@2-8A; 24V@0.2-2A; 12V@0.2-2A; -12V@0.2-1A	80	0.5	0.5	UL/CUL/TUV/CE	79.95	63.79	56.09
123393CC	Mean Well	S-150-5	5V@0-30A	150	0.5	0.5	UL/CUL/TUV/CE	64.79	58.30	52.50
123414CC	Mean Well	S-150-7.5	7.5V@0-20A	150	0.5	0.5	UL/CUL/TUV/CE	64.79	58.30	52.50
123422CC	Mean Well	S-150-12	12V@0-12.5A	180	0.3	0.3	UL/CUL/TUV/CE	64.79	58.30	52.50
202024CC	Mean Well	S-150-13.5	13.5V@0-11.2A	180	0.3	0.3	UL/CUL/TUV/CE	64.79	58.30	52.50
123431CC	Mean Well	S-150-15	15V@0-10A	180	0.3	0.3	UL/CUL/TUV/CE	64.79	58.30	52.50
123449CC	Mean Well	S-150-24	24V@0-6.5A	240	0.2	0.2	UL/CUL/TUV/CE	69.95	58.30	52.50
202032CC	Mean Well	S-150-27	27V@0-5.6A	240	0.2	0.2	UL/CUL/TUV/CE	64.79	58.30	52.50
167345CC	Mean Well	S-150-48	48V@0-3.2A	240	0.2	0.2	UL/CUL/TUV/CE	64.79	58.30	52.50
201902CC	Mean Well	SP-150-3.3	3.3V@0-30A	100	1	0.5	UL/CUL/TUV/CE	91.95	82.76	74.48
201911CC	Mean Well	SP-150-5	5V@0-30A	100	1	0.5	UL/CUL/TUV/CE	82.75	74.49	67.05
173420CC	Mean Well	SP-150-12	12V@0-12.5A	100	0.5	0.5	UL/CUL/TUV/CE	91.95	82.76	74.48
173411CC	Mean Well	SP-150-15	15V@0-10A	100	0.5	0.5	UL/CUL/TUV/CE	91.95	82.76	74.48
173403CC	Mean Well	SP-150-24	24V@0-6.3A	150	0.5	0.5	UL/CUL/TUV/CE	91.95	82.76	74.48
201929CC	Mean Well	SP-150-48	48V@0-3.2A	250	0.5	0.5	UL/CUL/TUV/CE	82.75	70.34	54.05
213831CC	Mean Well	TP-150C	5V@2-15A; 15V@0.4-4.5A; -15V@0-0.6A; 12V@0.4-5A; -12V@0-0.6A	100	3	1	UL/CUL/TUV/CE	93.25	83.89	75.50
213647CC	Mean Well	QP-150F	5V@3-10A; 15V@0-3A; 24V@0.4-2A; -15V@0-0.6A	120	2	1	UL/CUL/TUV/CE	145.95	120.99	106.99

* Primary Output

Special Offers at Great Savings – 90-Day Warranty

SALE

New Lower Prices

Jameco Part No.	Manufacturer	Manufacturer Product No.	Output	Ripple & Noise (mV p-p)	Load Reg. (±%)	Line Reg. (±%)	Certification	Pricing		
			Voltage@Current (min-max)					1	10	25
205701CC	Volgen	EXU-05030	5V@30A	—	0.8	0.4	UL/CSA	\$48.79 \$13.59	\$12.35	\$11.25
199515CC	Globtek	RT-3S150-24	24V@6.5A	100	5	5	UL/CE	59.95	47.95	35.95

Don't worry about backorders. Over 99% of our products are in stock! Just place your order by 6PM EST for same business day shipment.

200-Watt Enclosed With Power Factor Correction

SP-200 Series: Single Output

- 100% full-load burn-in
- Universal AC input
- No minimum load required
- Power Factor Correction
- 105°C output capacitor
- Built-in fan cooling
- Input: 85-264VAC@47-63Hz
- Mating connector: P/N 103587CC, pg 108
- -10° to +60°C working temperature (see www.Jameco.com)
- Mounting hardware use P/Ns 222130CC, 222156CC, 222164CC, 222181CC & 222172CC (see www.Jameco.com for specifications)
- Three-year warranty
- 3.3 watts/in³ maximum
- Voltage adj.: 10%



200-Watt Enclosed With Power Factor Correction

QP-200 Series: Quad Output

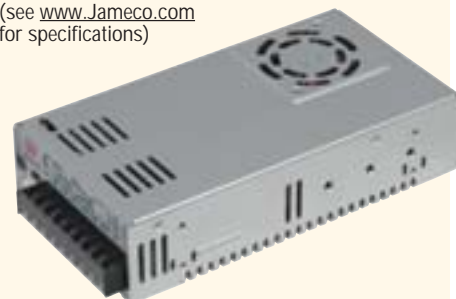
- 100% full-load burn-in
- Universal AC input
- Remote sense
- Power Factor Correction
- 105°C output capacitor
- 2.6 watts/in³ maximum
- Built-in fan cooling
- Three-year warranty
- Mating connector: P/N 103587CC, pg 108
- -10° to +60°C working temp. (see www.Jameco.com)
- Mounting hardware use P/Ns 222148CC, 222156CC, 222181CC & 222172CC (see www.Jameco.com for specifications)



240-Watt Enclosed

S-240 Series: Single Output

- 100% full-load burn-in
- No minimum load required
- 105°C output capacitor
- Input: 88-132/176-264VAC@47-63Hz
- Voltage adj.: 10%
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware use P/Ns 222148CC, 222156CC & 222172CC (see www.Jameco.com for specifications)
- Auto-switch AC input
- 3.4 watts/in³ max.
- Auto cooling fan
- Two-year warranty



Open-Frame Power Supplies
on pages 138-144.

For Complete Specifications visit www.Jameco.com.

SALE

New Lower Prices

Quantity SAVE

Jameco Part No.	Manufacturer	Manufacturer Product No.	Output Voltage@Current (min-max)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
								1	10	25
212417CC	Mean Well	SP-200-3.3	+3.3V@0-40A	100	1	0.5	UL/CUL/TUV/CE	\$58.59	\$47.99	\$43.59
202041CC	Mean Well	SP-200-5	+5V@0-40A	100	1	0.5	UL/CUL/TUV/CE	102.95	85.79	74.79
194773CC	Mean Well	SP-200-12	+12V@0-16.7A	100	0.5	0.5	UL/CUL/TUV/CE	102.95	92.66	83.39
212409CC	Mean Well	SP-200-13.5	+13.5V@0-14.9A	100	0.5	0.5	UL/CUL/TUV/CE	102.95	92.66	83.39
202059CC	Mean Well	SP-200-15	+15V@0-13.4A	100	0.5	0.5	UL/CUL/TUV/CE	102.95	87.51	65.63
194781CC	Mean Well	SP-200-24	+24V@0-8.4A	150	0.5	0.5	UL/CUL/TUV/CE	102.95	92.66	83.39
202067CC	Mean Well	SP-200-48	+48V@0-4.2A	250	0.5	0.5	UL/CUL/TUV/CE	102.95	92.66	83.39
213751CC	Mean Well	QP-200D	+5V@3-15A; +12V@0-4A; +24V@0.4-3A; -12V@0-0.7A	100	2	1	UL/CUL/TUV/CE	156.95	127.99	112.99
202083CC	Mean Well	S-240-5	+5V@0-40A	150	1	0.5	UL/CUL/TUV/CE	\$91.10	80.05	72.76
137648CC	Mean Well	S-240-12	+12V@0-18A	150	0.5	0.5	UL/CUL/TUV/CE	109.95	98.95	89.09
202075CC	Mean Well	S-240-15	+15V@0-15A	150	0.5	0.5	UL/CUL/TUV/CE	\$99.95	94.95	85.46
137656CC	Mean Well	S-240-24	+24V@0-10A	180	0.5	0.5	UL/CUL/TUV/CE	109.95	98.95	89.09
167337CC	Mean Well	S-240-48	+48V@0-5A	240	1	1	UL/CUL/TUV/CE	109.95	93.46	70.09

* Primary Output

See page 95 for Mating Connectors.



Line Cords on page 168.



AC Harmony

IEC standard 61000-3-2 imposes limits on the current harmonics in AC lines. Failure to meet the harmonic standard can prevent a device from gaining access to important European markets. This can lead to costly redesign and delays in marketing a new product.

So how do you ensure your product is compatible with regulated markets like Europe? It's often very easy! Just make sure you incorporate a power supply with Power Factor Correction (PFC) to meet the emerging standards.



Practical Practices
Money Saving Tips for the Engineer

300 & 320-Watt Enclosed With Power Factor Correction

SP-300 & SP-320 Series: Single Output

- 100% full-load burn-in
- No minimum load required
- Power Factor Correction
- Input: 88-264VAC@47-63Hz
- 105°C output capacitor
- Mating connector: P/N 103587CC, pg 108
- Working temperature: SP-300: -10° to +60°C; SP-320 -20° to 65° (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CC, 222130CC, 222181CC and 222172CC (see www.Jameco.com for specifications)

The SP-300 and SP-320 series feature input Power Factor Correction that meets EN61000-3-2, required in Europe for power supplies 75 watts and above.



320-Watt Enclosed

S-320 Series: Single Output

- 100% full-load burn-in
- No minimum load required
- Voltage adj.: 10%
- 105°C output capacitor
- Mating connector: P/N 103587CC, pg 108
- -10° to +60°C working temp. (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CC, 222148CC, 222181CC & 222172CC (see www.Jameco.com)
- Auto cooling fan
- 4.1 watts/in³ max.
- Two-year warranty



375-Watt Enclosed With Power Factor Correction

QP-375 Series: Quad Output

- 100% full-load burn-in
- Remote sense function
- Input: 88-264VAC@47-63Hz
- 105°C output capacitor
- Mating connector: P/N 103587CC, pg 108
- -10°C to +60°C working temperature (see www.Jameco.com)
- Mounting hardware: use P/Ns 222156CC & 222172CC (see www.Jameco.com for specifications)
- Universal AC input
- 2.8 watts/in³ max.
- Voltage adj.: 10%
- Three-year warranty



480-Watt Enclosed

SP-480 Series: Single Output

- Universal AC input
- Short circuit/ overload/ over-voltage/ over-temperature function
- -20°C to +60°C working temperature (see www.Jameco.com)
- High power density: 5.18 watts/in³ max.
- Inrush current: 25A@115VAC
- Leakage current: <2mA@240VAC
- Size: 10.9"L x 5.0"W x 1.7"H
- Power Factor Correction
- Built-in ON-OFF control
- Remote sense function
- Active AC surge current limiting
- Three-year warranty



Call for LOWER
PRICES on Larger
Quantities

Open-Frame Power Supplies
on pages 138-144.

For Complete Specifications visit www.Jameco.com.

SALE

New Lower
Prices

Quantity
SAVE

Jameco Part No.	Manufacturer	Manufacturer Product No.	Output	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)					1	10	25
202091CC	Mean Well	SP-300-5	+5V@0-50A at 230VAC; 0-40A at 115VAC	150	1	0.5	UL/CUL/TUV/CE	\$181.95	\$154.66	\$115.99
137390CC	Mean Well	SP-300-12	+12V@0-24A at 230VAC; 0-19.2A at 115VAC	150	0.5	0.3	UL/CUL/TUV/CE	181.95	159.70	143.80
212396CC	Mean Well	SP-300-13.5	+13.5V@0-21A at 230VAC; 0-16.8A at 115VAC	150	0.5	0.3	UL/CUL/TUV/CE	181.95	154.66	115.99
202104CC	Mean Well	SP-300-15	+15V@0-19A at 230VAC; 0-15.2A at 115VAC	150	0.5	0.3	UL/CUL/TUV/CE	181.95	159.70	143.80
137402CC	Mean Well	SP-300-24	+24V@0-12.5A at 230VAC; 0-10A at 115VAC	150	0.5	0.2	UL/CUL/TUV/CE	181.95	159.70	143.80
161980CC	Mean Well	SP-300-48	+48V@0-6.25A at 230VAC; 0-5A at 115VAC	240	0.5	0.2	UL/CUL/TUV/CE	181.95	154.66	115.99
244734CC	Mean Well	SP-320-5	+5V@0-55A at 230VAC; 0-44A at 115VAC	150	1	0.5	UL/CUL/TUV/CE	146.95	132.25	118.99
244742CC	Mean Well	SP-320-12	+12V@0-25A at 230VAC; 0-20A at 115VAC	150	0.5	0.3	UL/CUL/TUV/CE	146.95	132.25	118.99
244751CC	Mean Well	SP-320-24	+24V@0-13A at 230VAC; 0-10.4A at 115VAC	150	0.5	0.2	UL/CUL/TUV/CE	146.95	132.25	118.99
244769CC	Mean Well	SP-320-48	+48V@0-6.7A at 230VAC; 0-5.4A at 115VAC	240	0.5	0.2	UL/CUL/TUV/CE	146.95	132.25	118.99
216776CC	Mean Well	S-320-5	+5V@0-50A	150	1	0.5	UL/CUL	124.95	112.80	101.50
207212CC	Mean Well	S-320-7.5	+7.5V@0-36A	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
207204CC	Mean Well	S-320-12	+12V@0-25A	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
196656CC	Mean Well	S-320-24	+24V@0-12.5A	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
207191CC	Mean Well	S-320-48	+48V@0-6.5A	240	0.5	0.5	UL/CUL	124.95	112.80	101.50
220302CC	Mean Well	QP-375-5A	+5V@3.5-30A; +12V@0-10A; +12V@0-6A; +12V@0-3A	100	0.8	0.5	UL/CUL/TUV/CE	\$202.85 194.15	176.49	160.45
220281CC	Mean Well	QP-375-5D	+5V@3.5-30A; +12V@0-9A; +12V@0-4A; +24V@0-3A	100	0.8	0.5	UL/CUL/TUV/CE	\$226.99 182.35	165.79	150.69
301372CC	Mean Well	SP-480-12	+12V@0-40A at 230VAC; 0-36A at 115VAC	120	0.5	0.3	UL/CUL/TUV/CE	293.95	253.68	228.33
301321CC	Mean Well	SP-480-24	+24V@0-20A at 230VAC; 0-18A at 115VAC	150	0.5	0.2	UL/CUL/TUV/CE	293.95	253.68	228.33
301401CC	Mean Well	SP-480-48	+48V@0-10A at 230VAC; 0-9A at 115VAC	240	0.5	0.2	UL/CUL/TUV/CE	293.95	253.68	228.33

* Primary Output

500-Watt Enclosed With Power Factor Correction

SP-500 Series: Single Output

- 100% full-load burn-in
- Universal AC input
- 3.6 watts/in³ max.
- Remote control
- Auto cooling fan
- Voltage adj.: 10%
- Three-year warranty
- 105°C output capacitor
- Power Factor Correction
- No minimum load required
- Input: 100-240VAC@50-60Hz
- Mating connector: P/N 103587CC pg 108
- Mounting hardware: use P/Ns 222199CC, 222156CC & 222172CC (see www.Jameco.com)
- -10° to +60°C working temp. (see www.Jameco.com)



500, 1000 & 1500-Watt Enclosed With Power Factor Correction & Current Sharing

PSP-500, PSP-1000 & PSP-1500 Series: Single Output

- 100% full-load burn-in
- Voltage adj.: 10%
- 3.6 watts/in³ max.
- Remote sense and control
- Input: 90-264VAC@47-63Hz (PSP-500 and PSP-1000) 176-264VAC@47-63Hz (PSP-1500)
- Parallel operation (current sharing)
- -10° to +60°C working temp. (see www.Jameco.com for output derating)
- Mounting hardware: use P/Ns 222156CC & 222172CC (see www.Jameco.com for specifications)
- Auto cooling fan
- No minimum load required
- 105°C output capacitor
- Mating connector: P/N 103587CC, pg 108
- Three-year warranty



600-Watt Enclosed With Current Sharing

SCN-600 Series: Single Output

- 100% full-load burn-in
- No minimum load required
- 3.7 watts/in³ maximum
- Input: 90-130/180-260VAC@47-63Hz
- 105°C output capacitor
- Remote sense and control
- Mounting hardware: use P/Ns 222156CC & 222172CC (see www.Jameco.com for specifications)
- Auto cooling fan
- Voltage adj.: 5%
- Two-year warranty
- Parallel operation (current sharing)
- Mating connector: P/N 103587CC, pg 108
- (+50° to -65°C @ 50% load) (see www.Jameco.com)



600-Watt Enclosed

SE-600 Series: Single Output

- AC input range switch selectable
- AC input active surge current limiting
- Inrush current: 30A@115VAC
- Leakage current: <2mA@240VAC
- Short circuit/overload/over-voltage/over-temperature protection
- -20° to +60°C working temperature (see www.Jameco.com)
- Size: 9.7"L x 5.0"W x 2.5"H
- Two-year warranty



Very Low Cost

Corporate Customers

Even lower OEM pricing for larger orders!
Call 1-800-831-4242 for details today.

Open-Frame Power Supplies
on pages 138-144.

Jameco Part No.	Manufacturer	Manufacturer Product No.	Output	Ripple & Noise (mV p-p)	Load Reg. (±%)	Line Reg. (±%)	Certification	Pricing		
			Voltage@Current (min-max)					1	10	25
190692CC	Mean Well	SP-500-12	+12V@0-40A at 230VAC; 0-34A at 115VAC	240	0.5	0.5	UL/CUL/TUV/CE	\$249.95	\$216.10	\$194.50
212388CC	Mean Well	SP-500-13.5	+13.5V@0-36A at 230VAC; 0-30.6A at 115VAC	240	0.5	0.5	UL/CUL/TUV/CE	249.95	216.10	194.50
213604CC	Mean Well	SP-500-15	+15V@0-32A at 230VAC; 0-27.2A at 115VAC	240	0.5	0.5	UL/CUL/TUV/CE	239.95	203.96	152.97
147053CC	Mean Well	SP-500-24	+24V@0-20A at 230VAC; 0-17A at 115VAC	240	0.5	0.5	UL/CUL/TUV/CE	249.95	216.10	194.50
190705CC	Mean Well	SP-500-27	+27V@0-18A at 230VAC; 0-15.3A at 115VAC	200	0.5	0.5	UL/CUL/TUV/CE	249.95	216.10	194.50
161795CC	Mean Well	SP-500-48	+48V@0-10A at 230VAC; 0-8.5A at 115VAC	300	0.5	0.5	UL/CUL/TUV/CE	249.95	216.10	194.50
190713CC	Mean Well	PSP-500-12	+12V@0-41.5A at 230VAC; 0-33.2A at 115VAC	150	0.5	0.3	UL/CUL/TUV/CE	269.95	232.09	216.69
202121CC	Mean Well	PSP-500-15	+15V@0-33A at 230VAC; 0-26.4A at 115VAC	150	0.5	0.3	UL/CUL/TUV/CE	269.95	232.09	216.69
190721CC	Mean Well	PSP-500-24	+24V@0-20.8A at 230VAC; 0-16.6A at 115VAC	150	0.5	0.2	UL/CUL/TUV/CE	269.95	229.46	172.09
190730CC	Mean Well	PSP-500-27	+27V@0-18.5A at 230VAC; 0-14.8A at 115VAC	150	0.5	0.2	UL/CUL/TUV/CE	269.95	232.09	216.69
190748CC	Mean Well	PSP-500-48	+48V@0-10.5A at 230VAC; 0-8.4A at 115VAC	200	0.5	0.2	UL/CUL/TUV/CE	269.95	232.09	216.69
217373CC	Mean Well	PSP-1000-5	+5V@0-145A at 230VAC; 0-123.3A at 115VAC	100	2	0.5	UL/CUL/TUV/CE	499.95	424.96	318.72
217365CC	Mean Well	PSP-1000-12	+12V@0-75A at 230VAC; 0-63.8A at 115VAC	150	0.5	0.3	UL/CUL/TUV/CE	523.95	442.19	402.59
231642CC	Mean Well	PSP-1000-13.5	+13.5V@0-67A at 230VAC; 0-57.8A at 115VAC	150	0.5	0.3	UL/CUL/TUV/CE	523.95	442.19	402.59
231634CC	Mean Well	PSP-1000-15	+15V@0-60A at 230VAC; 0-51A at 115VAC	150	0.5	0.3	UL/CUL/TUV/CE	523.95	442.19	402.59
217357CC	Mean Well	PSP-1000-24	+24V@0-37.6A at 230VAC; 0-32A at 115VAC	150	0.5	0.2	UL/CUL/TUV/CE	523.95	442.19	402.59
231651CC	Mean Well	PSP-1000-27	+27V@0-33.6A at 230VAC; 0-28.6A at 115VAC	150	0.5	0.2	UL/CUL/TUV/CE	523.95	442.19	402.59
217349CC	Mean Well	PSP-1000-48	+48V@0-19A at 230VAC; 0-16.2A at 115VAC	200	0.5	0.2	UL/CUL/TUV/CE	523.95	442.19	402.59
231669CC	Mean Well	PSP-1500-5	+5V@0-217.5A	100	2	0.5	CUL/TUV/CE	786.95	663.25	619.25
231685CC	Mean Well	PSP-1500-13.5	+13.5V@0-100.5A	150	0.5	0.3	CUL/TUV/CE	581.39 479.99	436.42	396.74
231693CC	Mean Well	PSP-1500-15	+15V@0-90.0A	150	0.5	0.3	CUL/TUV/CE	786.95	663.25	619.25
231714CC	Mean Well	PSP-1500-27	+27V@0-50.4A	150	0.5	0.2	CUL/TUV/CE	786.95	663.25	619.25
231722CC	Mean Well	PSP-1500-48	+48V@0-28.5A	200	0.5	0.2	CUL/TUV/CE	786.95	663.25	619.25
220249CC	Mean Well	SCN-600-05	+5V@0-100A	100	2	0.5	UL/CUL	273.95	213.99	197.99
220257CC	Mean Well	SCN-600-12	+12V@0-50A	120	1	0.5	UL/CUL	273.95	213.99	197.99
220265CC	Mean Well	SCN-600-24	+24V@0-25A	240	1	0.5	UL/CUL	273.95	213.99	197.99
291522CC	Mean Well	SE-600-15	+15V@0-40A	150	0.5	0.5	UL/CUL	173.95	156.59	140.89
295902CC	Mean Well	SE-600-24	+24V@0-25A	150	0.5	0.5	UL/CUL	173.95	156.59	140.89
295911CC	Mean Well	SE-600-27	+27V@0-22.2A	150	0.5	0.5	UL/CUL	173.95	156.59	140.89
295929CC	Mean Well	SE-600-48	+48V@0-12.5A	200	0.5	0.5	UL/CUL	173.95	156.59	140.89

Other Versions Available: Call 800-831-4242

For Complete Specifications visit www.Jameco.com.

DIN-Rail Switching Power Supplies

- Low cost, high reliability
- Soft-start circuit, limiting AC surge current
- Short-circuit, overload, over-voltage protected
- 100% full-load burn-in test
- For DIN-Rail terminal blocks see page 107



SALE
Quantity
SAVE

Part No.	Product No.	Power (W)	Output Volts@Current	Input Voltage (VAC @ Hz/VDC)	Input Current @ Maximum Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
212302CC	DR-4505	25	5VDC @ 5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	\$45.95	\$35.19	\$32.99
192698CC	DR-4512	42	12VDC @ 3.5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	45.95	35.19	32.99
221874CC	DR-4515	42	15VDC @ 2.8A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	45.95	35.19	32.99
192680CC	DR-4524	48	24VDC @ 2A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	45.95	35.19	32.99
212290CC	DR-7512	75	12VDC @ 6.3A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	73.95	56.09	51.69
212281CC	DR-7524	75	24VDC @ 3.2A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	73.95	56.09	51.69
221866CC	DR-7548	75	48VDC @ 1.6A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	48.85	44.39	40.35
212273CC	DR-12012	120	12VDC @ 10A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	85.95	64.89	60.49
212265CC	DR-12024	120	24VDC @ 5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	85.95	64.89	60.49
221903CC	DR-12048	120	48VDC @ 2.5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	85.95	73.06	54.79
221891CC	DRP-24024†	240	24VDC @ 10A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	112.19	104.49
221882CC	DRP-24048†	240	48VDC @ 5.0A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
252662CC	DRP-48024†	480	24VDC @ 20.0A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	218.95	207.99	197.60
252654CC	DRP-48048†	480	48VDC @ 10.0A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	218.95	207.99	197.60
295937CC	DRP-480S-24†	480	24VDC @ 20.0A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	225.35	215.03	204.28
301305CC	DRP-480S-48†	480	48VDC @ 10.0A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	225.35	215.03	204.28

*Switch selectable † With Power Factor Correction

DIN Mounting Rail

DIN rail enables easy installation of components such as fuseable terminal blocks & power supplies configured for DIN mounting.



Part No.	Product No.	Description	Material	Type	Length	1	10	100
248735CC	2094.0	Prepunched	Zinc bichromate plate steel	TS35x7.5	1 meter (39")	\$6.79	\$5.45	\$4.10

13.8VDC Precision Regulated Power Supplies

- Output voltage: 13.8VDC
- Heavy duty 5'8" 3-prong power cord
- Short-circuit protection
- Output mating terminals: see page 109 for cigarette plugs & page 204 for banana terminal plugs
- Input voltage: 115VAC @ 60Hz
- Illuminated rocker switch
- Fuse protected

135845CC
Banana/
Cigarette136581CC
Banana
terminal138667CC
Banana
terminal
(rear)

Part No.	Model No.	Power (W)	Output Current (A)	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
135845CC	RPS1204	55.2	4	Banana terminals / cigarette plug	6.7 x 5.2 x 3.2	5.5	\$29.95	\$26.95	\$23.95
136581CC	RPS1207†	96.6	7	Banana terminals	8.7 x 5.7 x 3.6	8.5	59.95	53.95	48.95
138667CC	38-381	138.0	10	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	69.95	62.95	56.95
138675CC	52-192012	276.0	20	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	99.95	89.95

† P/N 136581CC includes overheating protection

ACDC Electronics

45-Watt Linear Power Supply

- Input connector: 0.173" solder terminals
- Output connector: solder studs

Part No.	Product No.	Output Voltage	Input Voltage	Size	Weight	1	10	25
214615CC	ECV15N3	15V @ 3A	115VAC @ 50-60Hz	5.6"L x 5.0"W x 3.0"H	4.0 lbs.	\$42.65 \$5.45	\$4.95	\$4.49

SALE



6 to 10-Amp Non-Isolated, Point-of-Load DC-to-DC Converters

6-Amp SIL06C Series

ARTESYN TECHNOLOGIES

- di/dt: 10A/µs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- Ultra-wide trim range
- "Power good" signal
- Planar magnetics technology
- Protection: over-current & short-circuit
- Working temperature: 0° to +80°C (derated above 50°C)
- Very high MTBF
- Two-year warranty



219150CC



219168CC

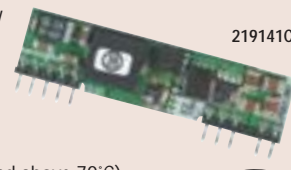
10-Amp SIL10E Series

ARTESYN TECHNOLOGIES

- di/dt: 10A/µs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- 96% efficiency at 3.3V
- Highest power density: 107W/in³
- Planar magnetics technology
- Protection: thermal & short-circuit
- Working temperature: -40° to +100°C (derated above 70°C)
- Very high MTBF
- Two-year warranty
- Remote sense



219141CC



Mfr.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	MTBF (hours)	Jameco Part No.	Price			
			Voltage@Current	Power									1	10	25	100
Artesyn	SIL06C-05SADJ-V	4.5V-5.5V	0.9-3.3V@6A	20W	1.2x0.6x0.07	8	0.2	0.5	0 to +80	89	1,300,000	219150CC	\$10.78 \$9.45	\$8.97	\$8.52	\$8.09
Artesyn	SIL06C-05SADJ-H	4.5V-5.5V	0.9-3.3V@6A	20W	1.2x0.6x0.53	8	0.2	0.5	0 to +80	89	1,300,000	219168CC	\$10.78 \$9.45	8.97	8.52	8.09
Artesyn	SIL10E-05S1V8-V	3.0V-5.5V	1.8V@10A	18W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	92	7,042,000	219141CC	\$20.36 \$17.99	17.15	16.29	15.48
Artesyn	SIL10E-05S2V5-V	3.0V-5.5V	2.5V@10A	25W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	94	7,042,000	219133CC	\$19.79 \$17.99	17.15	16.29	15.48
Artesyn	SIL10E-05W3V3-V	4.5V-5.5V	0.8-3.6V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	219117CC	\$20.60 \$17.99	17.15	16.29	15.48
Artesyn	SIL10E-05S3V3-V	4.5V-5.5V	3.3V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	219125CC	\$20.60 \$17.99	17.15	16.29	15.48

SALE

New Lower
Prices

15 to 30-Amp Non-Isolated, Point-of-Load DC-to-DC Converters

Color Code Legend
New Sale Qty. Save Closeout

15-Amp SIL15C Series

- di/dt: 10A/μs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- Two-year warranty
- Ultra-wide trim range
- Protection: over-current & short-circuit
- Working temperature: 0° to +80°C (derated above 50°C)

ARTESYN TECHNOLOGIES



30-Amp SIL30C Series

- di/dt: 10A/μs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- Two-year warranty
- Ultra-wide trim range
- Horizontal & vertical models
- Protection: over-current, over-temperature & short-circuit
- Working temperature: 0° to +80°C (derated above 50°C)

ARTESYN TECHNOLOGIES



For Complete Specifications visit www.Jameco.com.

Mfr.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	Jameco Part No.	Price			
			Voltage@Current	Power								1	10	25	100
Artesyn	SIL15C-05SADJ-V	4.5V-5.5V	0.9V-3.3V@15A	50W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	89	218886CC	\$13.49	\$12.81	\$12.17	\$11.06
Artesyn	SIL15C-12SADJ-V	10.2V-13.8V	0.9V-5V@15A	75W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	91	218878CC	16.65	15.19	13.74	12.29
Artesyn	SIL30C-12SADJ-V	10.2V-13.8V	0.9V-5V@30A	150W	2.40x1.25x0.47	24	0.2	1.0	0 to +80	91	218860CC	19.95	19.74	19.53	19.32

SALE

0.5 to 10-Watt Isolated DC-to-DC Converters

0.5 & 1-Watt Regulated & Unregulated Encapsulated

- 1000VDC isolation
- Protection: short-circuit
- 100% burn-in test
- Input filter: capacitor type
- No external components needed
- Working temp.: -15 to +60°C
- One-year warranty

Other Versions Available: Call 800-831-4242



Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price				
			Voltage@Current	Power						1	10	25	100	
213225CC	SRS-0505	4.5-5.5V	+5V@100mA	0.5W	0.88x0.39x0.33	8	1.0	1.0	100	\$6.49	\$5.39	\$4.91	\$4.46	\$4.05
216830CC	SPR01L-12	4.5-5.5V	+12V@84mA	1W	0.77x0.28x0.4	4	1.0	1.0	100		8.95	8.06	7.25	6.52

SALE

New Lower Prices

3 & 5-Watt Regulated Encapsulated

- 1000VDC isolation
- Input filter: Pi network
- No external components needed
- 2:1 wide input range
- 100% burn-in test
- Working temperature: -15 to +60°C
- Shielded metal case
- Protection: short-circuit & overload
- One-year warranty



Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price				
			Voltage@Current	Power						1	10	25	100	
213268CC	SCW03A-05	9-18V	+5V@600mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	\$15.49	\$13.95	\$12.59	\$11.29	
155918CC	DCW03A-05	9-18V	+5V@300mA; -5V@300mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29	
161701CC	DCW03A-12	9-18V	+12V@125mA; -12V@125mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29	
220388CC	SLW05L-12	4.5-9V	+12V@417mA	5W	2x1x0.44	5	0.2	0.5	100	24.95	22.49	20.25	18.25	
220353CC	SLW05A-033	9-18V	+3.3V@1500mA	5W	2x1x0.44	5	0.2	0.5	100	19.95	17.95	16.16	14.54	
216928CC	SLW05A-05	9-18V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25	
216881CC	SLW05A-15	9-18V	+15V@333mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25	
220361CC	SLW05B-033	18-36V	+3.3V@1500mA	5W	2x1x0.44	5	0.2	0.5	100	\$46.25	13.49	12.29	11.15	10.15
216936CC	SLW05B-05	18-36V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25	
216910CC	SLW05B-12	18-36V	+12V@417mA	5W	2x1x0.44	5	1.0	0.2	100	21.95	19.76	17.78	16.00	
216864CC	DLW05B-12	18-36V	+12V@208mA; -12V@208mA	5W	2x1x0.44	5	0.2	0.2	100	24.95	22.46	20.21	18.19	
213233CC	SLW05C-05	36-72V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	17.25	15.50	13.95	12.56	

SALE

New Lower Prices

10-Watt Open Frame

CXA10 Series: Single Output

- Isolation voltage: 1500VDC
- Industry standard footprint
- Protection: short-circuit & overload
- Remote ON/OFF
- 100% burn-in test
- 4:1 input voltage range
- Two-year warranty
- Working temp.: -40 to +100°C (see www.Jameco.com)

ARTESYN TECHNOLOGIES



Other Versions Available: Call 800-831-4242



Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price				
			Voltage@Current	Power						1	10	25	100	
219037CC	CXA10-48S3V3	18-75V	+3.3V@2400mA	7.9W	2x1x0.54	6	0.1	0.2	30	\$34.85	\$31.68	\$28.80	\$26.18	
219045CC	CXA10-48S05	18-75V	+5.0V@2000mA	10W	2x1x0.54	6	0.1	0.2	30	\$38.89	\$36.49	\$33.15	\$30.14	\$27.40

SALE

New Lower Prices

Phone 1-800-831-8242 Online www.Jameco.com Fax 1-800-237-6948

Order Anytime 24x7x365

10-Watt Encapsulated

- Isolation voltage: 1000VDC
- 2:1 wide input range
- Working temperature: -15 to +60°C
- Free-air convection cooling

- Input filter: Pi-network
- Shielded metal case
- Industry standard package
- One-year warranty

- 100% burn-in test
- Protection: short-circuit & overload



Quantity
SAVE

New Lower Prices

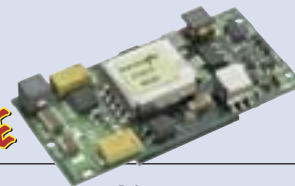
SALE

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power						1	10	25	100
216961CC	SKE10A-05	9-18V	+5V@2000mA	10W	2x1x0.44	5	0.3	1.0	50	\$33.95	\$30.55	\$26.95	\$24.55
216979CC	SKE10A-15	9-18V	+15V@666mA	10W	2x1x0.44	5	0.3	1.0	60	33.95	30.55	26.95	24.55
220337CC	SKE10B-033	18-36V	+3.3V@2400mA	8W	2x1x0.44	5	0.3	0.5	50	33.95	30.55	26.95	24.55
216952CC	SKE10B-05	18-36V	+5V@2000mA	10W	2x1x0.44	5	0.3	0.5	50	33.95	30.55	26.95	24.55
217023CC	SKE10B-12	18-36V	+12V@840mA	10W	2x1x0.44	5	0.3	0.5	60	\$33.95 29.95	26.96	24.26	21.83
216995CC	SKE10B-15	18-36V	+15V@666mA	10W	2x1x0.44	5	0.3	0.5	60	\$22.45 19.99	17.29	15.69	14.29
220345CC	SKE10C-033	36-72V	+3.3V@2400mA	8W	2x1x0.44	5	0.3	0.5	50	\$25.99 21.49	19.54	17.76	16.15
216944CC	SKE10C-05	36-72V	+5V@2000mA	10W	2x1x0.44	5	0.3	1.0	50	33.95	30.56	24.44	18.33
217015CC	SKE10C-12	36-72V	+12V@840mA	10W	2x1x0.44	5	0.3	1.0	60	\$22.35 18.89	17.15	15.59	14.19
216987CC	SKE10C-15	36-72V	+15V@666mA	10W	2x1x0.44	5	0.3	1.0	60	\$22.45 18.99	17.29	15.71	14.28
217031CC	DKE10A-05	9-18V	+5V@1000mA; -5V@1000mA	10W	2x1x0.44	5	0.3	0.5	50	34.95	31.45	27.95	25.45
217091CC	DKE10A-12	9-18V	+12V@420mA; -12V@420mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217111CC	DKE10A-15	9-18V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217058CC	DKE10B-05	18-36V	+5V@1000mA; -5V@1000mA	10W	2x1x0.44	5	0.3	0.5	50	\$23.75 20.35	18.51	16.82	15.29
217082CC	DKE10B-12	18-36V	+12V@420mA; -12V@420mA	10W	2x1x0.44	5	0.3	0.5	60	\$23.75 20.35	18.51	16.82	15.29
217074CC	DKE10B-15	18-36V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217040CC	DKE10C-05	36-72V	+5V@1000mA; -5V@1000mA	10W	2x1x0.44	5	0.3	0.5	50	\$23.75 20.35	18.51	16.82	15.29
217103CC	DKE10C-12	36-72V	+12V@420mA; -12V@420mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.46	25.16	18.87
217066CC	DKE10C-15	36-72V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	\$23.75 20.35	18.51	16.82	15.29

15-Watt Open Frame

- Isolation voltage: 1500VDC
- Protection: over-voltage & over-current
- Two-year warranty
- No minimum load

- Industry standard footprint
- 100% burn-in test
- Remote ON/OFF
- Output trim
- Working temperature: -40° to +65°C



Power

SALE

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power						1	10	25	100
219070CC	CXE15-48S1V8	33-75V	+1.8V@6000mA	10.8W	2x1x0.35	6	0.3	2.0	40	\$37.15	\$33.76	\$30.69	\$27.90
219088CC	CXE15-48S2V5	33-75V	+2.5V@6000mA	15W	2x1x0.35	6	0.3	1.5	40	37.15	33.76	30.69	27.90
219053CC	CXE15-48S3V3	33-75V	+3.3V@4500mA	15W	2x1x0.35	6	0.1	0.5	70	36.29	32.98	29.99	27.26
219061CC	CXE15-48S0V5	33-75V	+5V@3000mA	15W	2x1x0.35	6	0.1	0.5	70	36.15	33.76	30.69	27.90

15-Watt Encapsulated

- Isolation voltage: 1000VDC
- Protection: short-circuit & overload
- Free-air convection cooling
- 2:1 wide input range

- Input filter: Pi network
- Shielded metal case
- 100% burn-in test
- Working temperature: -15° to +60°C
- One-year warranty



SALE

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power						1	10	25	100
155715CC	SKE15A-05	9-18V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	\$34.95	\$31.49	\$28.15	\$25.35
155707CC	SKE15A-12	9-18V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.19	28.15	25.35
155694CC	SKE15A-24	9-18V	+24V@625mA	15W	2x2x0.43	5	0.3	0.5	80	34.95	31.49	28.15	25.35
213276CC	SKE15B-05	18-36V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	34.95	31.49	28.15	25.35
213284CC	SKE15B-12	18-36V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.49	28.15	25.35
161728CC	DKE15A-12	9-18V	+12V@625mA; -12V@625mA	15W	2x2x0.43	5	0.3	0.5	60	35.95	32.35	29.15	24.25
213292CC	DKE15A-24	9-18V	+24V@313mA; -24V@313mA	15W	2x2x0.43	5	0.3	0.5	80	32.95	29.69	26.90	24.05
217154CC	DKE15C-15	36-72V	+15V@500mA; -15V@500mA	15W	2x2x0.43	5	0.3	0.5	60	\$22.95 19.69	17.89	16.26	14.79

30-Day Money-Back Guarantee

If you're not satisfied, we'll take it back! Details on page 246.

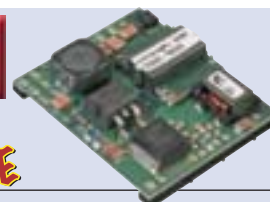
20 to 30-Watt Isolated DC-to-DC Converters

Color Code Legend
New Sale Qty Save Closeout

20-Watt Open Frame

- Isolation voltage: 1500VDC
- Remote ON/OFF
- Output trim
- Working temperature: -40° to +60°C (see www.Jameco.com)
- Industry standard footprint
- 4:1 input voltage range
- Protection: over-voltage, over-temperature & short-circuit
- Two-year warranty
- 100% burn-in test
- No minimum load

ARTESYN
TECHNOLOGIES



SALE

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power						1	10	25	100
219109CC	CXA20-48S3V3	18-75V	+3.3V@6000mA	19.8W	2x1.6x0.41	8	0.1	0.2	75	\$41.55	\$37.74	\$34.31	\$31.19
219096CC	CXA20-48S05	18-75V	+5V@4000mA	20.0W	2x1.6x0.41	8	0.1	0.1	75	45.65	41.46	37.69	34.26

20-Watt Encapsulated

- Isolation voltage: 1000VDC
- Industry standard package
- Free-air convection cooling
- One-year warranty
- Output trim
- Shielded metal case
- Input filter: Pi network
- Working temp.: -40° to +71°C
- Protection: short-circuit & overload
- 100% burn-in test

Other Versions Available: Call 800-831-4242



SALE

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power						1	10	25	100
217630CC	DKB20A-05	9-18V	+5V@2000mA; -5V@2000mA	20W	1.2x2x0.82	8	0.2	0.2	100	\$44.95	\$40.49	\$36.45	\$32.79
217584CC	DKB20A-12	9-18V	+12V@833mA; -12V@833mA	20W	1.2x2x0.82	8	0.2	0.2	100	33.09	30.07	27.34	24.85
217621CC	DKB20A-15	9-18V	+15V@667mA; -15V@667mA	20W	1.2x2x0.82	8	0.2	0.2	100	33.09	30.07	27.34	24.85
217592CC	DKB20B-12	18-36V	+12V@833mA; -12V@833mA	20W	1.2x2x0.82	8	0.2	0.2	100	32.99	29.99	27.26	24.79
217605CC	DKB20B-15	18-36V	+15V@667mA; -15V@667mA	20W	1.2x2x0.82	8	0.2	0.2	100	33.05	30.00	27.27	24.79
217576CC	DKB20C-12	36-72V	+12V@833mA; -12V@833mA	20W	1.2x2x0.82	8	0.2	0.2	100	33.09	30.07	27.34	24.85
217613CC	DKB20C-15	36-72V	+15V@667mA; -15V@667mA	20W	1.2x2x0.82	8	0.2	0.2	100	33.09	30.07	27.34	24.85
217664CC	TKB20B-B	18-36V	+5V@2500mA; ±12V@310mA	20W	1.2x2x0.82	8	0.2	0.2	100	34.65	31.50	28.64	26.04
217672CC	TKB20B-C	18-36V	+5V@2500mA; ±15V@250mA	20W	1.2x2x0.82	8	0.2	0.2	100	34.65	31.50	28.64	26.11
217648CC	TKB20C-B	36-72V	+5V@2500mA; ±12V@310mA	20W	1.2x2x0.82	8	0.2	0.2	100	37.79	33.99	31.25	29.89

25-Watt Enclosed

- Isolation voltage: 500VDC
- 2:1 wide input range
- Working temperature: -10° to +60°C
- Protection: short-circuit, overload and over-voltage
- Input filter: Pi-network
- Shielded metal case
- 100% burn-in test
- Free-air convection cooling
- 105°C output capacitor
- One-year warranty

Other Versions Available: Call 800-831-4242



SALE

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power						1	10	25	100
175661CC	SD-25A-5	9-18V	+5V@5000mA	25W	see www.Jameco.com	5	0.5	0.5	100	\$40.95	\$30.99	\$28.99	\$24.99
175804CC	SD-25A-12	9-18V	+12V@2100mA	25.2W	see www.Jameco.com	5	0.3	0.3	120	37.95	34.16	27.32	20.49
175812CC	SD-25A-24	9-18V	+24V@1100mA	26.4W	see www.Jameco.com	5	0.2	0.2	150	40.95	30.99	28.99	24.99

30-Watt Encapsulated

- Isolation voltage: 1000VDC
- Protection: short-circuit & overload
- Shielded metal case
- Working temperature: -40° to +71°C
- Input filter: Pi-network
- 2:1 wide input range
- Remote ON/OFF
- Output trim
- Switching frequency: 100kHz
- 100% burn-in test
- One-year warranty



SALE

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power						1	10	25	100
217701CC	DKA30A-12	9-18V	±12V@1250mA	30W	2x2x0.82	8	0.2	0.2	100	40.55	32.99	29.99	27.28
218544CC	DKA30B-12	18-36V	±12V@1250mA	30W	2x2x0.82	8	0.2	0.2	100	40.49	40.55	36.83	33.48
217699CC	DKA30C-12	36-72V	±12V@1250mA	30W	2x2x0.82	8	0.2	0.2	100	40.55	32.99	29.99	27.28
217736CC	TKA30A-B	9-18V	+5V@3500mA; ±12V@310mA	25W	2x2x0.82	8	0.2	0.2	100	43.45	35.39	32.15	29.23
217728CC	TKA30B-C	18-36V	+5V@3500mA; ±15V@250mA	25W	2x2x0.82	8	0.2	0.2	100	43.45	35.39	32.15	29.23
217681CC	TKA30C-B	36-72V	+5V@3500mA; ±12V@310mA	25W	2x2x0.82	8	0.2	0.2	100	43.45	35.39	32.15	29.23

Corporate Customers

Opening an account is easy!! Call 1-800-831-4242 for details today.

30-Watt Encapsulated

- Isolation voltage: 1000VDC
- 2:1 wide input range
- Working temperature: -25° to +85°C
- Protection: short-circuit, overload & over-voltage
- Input filter: Pi-network
- Shielded metal case
- 100% burn-in test

Other Versions
Available: Call
800-831-4242

- Output trim
- Remote ON/OFF
- One-year warranty



SALE

New Lower Prices

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power						1	10	25	100
217234CC	SDM30-12S12	9-18V	+12V@2100mA	25.2W	2x1.8x0.62	8	1.0	1.0	100	\$34.95	\$31.77	\$28.88	\$26.26
217242CC	SDM30-24S12	18-36V	+12V@2500mA	30W	2x1.8x0.62	8	1.0	1.0	100	45.95	41.35	37.25	33.55
217226CC	SDM30-48S05	36-72V	+5V@5000mA	25W	2x1.8x0.62	8	1.0	1.0	100	26.55	24.12	21.93	19.93
217197CC	SDM30-48S15	36-72V	+15V@2000mA	30W	2x1.8x0.62	8	1.0	1.0	100	24.79	22.53	20.48	18.62

60-Watt Open Frame

- Isolation voltage: 1500VDC
- 100% burn-in test
- Protection: short-circuit, over-current & over-voltage
- Remote ON/OFF
- Working temperature: -40 to +100°C

- No minimum load
- Output trim
- Two-year warranty



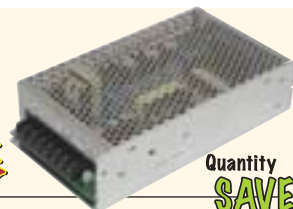
SALE

New Lower Prices

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power				1	10	25	100
218894CC	EXQ60-48D3V3-2V5-R	33-75V	+2.5V@16A; +3.3V@12A	40W	2.3x1.5x0.5	7	60	\$110.05	\$100.06	\$90.96	\$82.69
218907CC	EXQ60-48D05-3V3-R	33-75V	+3.3V@15A; +5V@12A	60W	2.3x1.5x0.5	7	60	109.95	99.92	90.84	82.58

50, 100 & 150-Watt Enclosed

- Isolation voltage: 1500VDC
- One-year warranty
- 2:1 wide input range
- 105°C output capacitor
- Mounting hardware: use P/Ns 222156CC & 222172CC; see www.Jameco.com for specifications
- Input filter: Pi-network
- Shielded metal case
- Working temperature: -10° to +60°C
- Protection: short-circuit, overload & over-voltage
- 100% burn-in test
- Free-air convection cooling



SALE

Quantity SAVE

Jameco Part No.	Manufacturer Product Number	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Price			
			Voltage@Current	Power						1	10	25	100
212548CC	SD-50A-5	9-18V	+5V@10A	50W	see www.Jameco.com	5	0.5	0.5	100	\$35.79	\$32.53	\$29.58	\$26.89
212530CC	SD-50B-12	19-36V	+12V@4.2A	50.4W	see www.Jameco.com	5	0.3	0.3	120	51.95	46.76	37.40	28.05
212513CC	SD-50B-24	19-36V	+24V@2.1A	50.4W	see www.Jameco.com	5	0.2	0.2	150	35.79	32.21	25.77	24.15
216602CC	SD-50C-5	36-72V	+5V@10A	50W	see www.Jameco.com	5	0.5	0.5	100	30.65	27.85	25.32	23.02
212505CC	SD-50C-12	36-72V	+12V@4.2A	50.4W	see www.Jameco.com	5	0.3	0.3	120	51.95	39.99	36.99	32.99
212492CC	SD-50C-24	36-72V	+24V@2.1A	50.4W	see www.Jameco.com	5	0.2	0.2	150	38.95	35.05	31.54	28.39
216565CC	SD-100B-12	19-36V	+12V@8.5A	102W	see www.Jameco.com	7	0.3	0.3	120	72.95	65.66	52.52	39.39
212468CC	SD-100C-12	36-72V	+12V@8.5A	102W	see www.Jameco.com	7	0.3	0.3	120	63.95	53.99	50.99	44.99
217269CC	SD-150B-12	19-36V	+12V@12.5A	150W	see www.Jameco.com	7	0.5	0.5	120	82.95	70.99	65.99	57.99

Looking for Solderless Terminals?

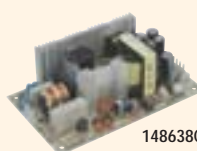
Find them on page 108



Awesome Prices in Power Supplies!



218561CC



148638CC



219011CC



123393CC

Jameco Part No.	Product No.	Jameco® Price	Digi-Key® Price	Mouser® Price	Newark® Price	Minimum Savings Discount	
218561CC	NLP65-7605	\$52.99	\$62.88	\$73.76	\$71.38	\$9.89	15.7%
148638CC	PS-65-12	\$29.95	\$65.25	\$39.93	\$69.90	\$9.98	25.0%
218579CC	NLP65-7612	\$52.65	\$62.88	\$73.76	\$71.38	\$10.23	16.3%
235088CC	NLP65-7629	\$28.35	\$62.88	Not Offered	\$71.38	\$34.53	54.9%
219011CC	NLP150L-96S5	\$85.55	\$113.78	\$100.00	\$123.00	\$14.45	14.5%
123393CC	S-150-5	\$64.79	\$136.20	\$154.13	\$275.07	\$71.41	52.4%
123449CC	S-150	\$69.95	\$169.14	\$154.13	\$275.07	\$84.18	54.6%

These are single unit prices taken from each party's website on December 10, 2004, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

AC-to-DC Regulated Switching Table-Top Power Supplies

Color Code Legend
New Sale Qty. Save Closeout

We will change any power plug (pg 109) on any table-top power supply (100 pc. minimum).

See page 167 for International Power Cords



237059CC



230498CC



206455CC



159353CC



243011CC



DIN M

New Lower Prices

Quantity SAVE

Polarity 1 $\oplus \ominus \ominus$ (center negative)



Female



Male

Polarity 2 $\ominus \oplus \oplus$ (center positive)

Power	Part Number	Brand ▲	Mfr. Cross Ref. No. ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
2-Wire AC Input – Regulated Switching																	
12-24 Watt	221591CC	Mean Well	P30B-0P2JU	12	+3.3/3.6	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	\$17.99	\$16.35	\$14.86	\$13.51
	237059CC	Cisco	ADP-12GB	12.5	+5/2.5	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	3.5 x 2.3 x 1.2	6'/3	0.6	UL/CUL/TUV/CE	14.95	13.49	12.15	10.89
	249050CC	Phihong	PSA15W-050	12.5	+5/2.5	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.3 x 2.6 x 1.0	6'/3	0.4	UL/CSA/TUV/CE	19.49	17.75	16.39	14.55
	211300CC	Artesyn	SSL20-7605	20	+5/4.0	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.3 x 1.0	6'/3	1.5	UL/CSA/VDE/CE	24.95	22.46	17.96	13.11
	221604CC	Mean Well	P30B-1P2JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	19.95	18.12	16.47	14.97
	195805CC	Horizon	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	195768CC	Horizon	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	22.95	20.65	18.59	16.75
	249041CC	Phihong	PSA15W-120	15	+12/1.25	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.6 x 1.0	6'/3	0.3	UL/CSA/TUV/CE	19.49	17.75	16.39	14.55
	242958CC	Mean Well	G15B-3P2JR15	15	+12/1.3	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.3 x 1.6	6'/6'	0.5	UL/CSA/TUV/CE	19.49	17.69	16.39	14.51
	211174CC	Horizon	SC102TA1503	18	+15/1.2	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.0 x 1.9 x 1.4	6'/3	0.5	UL/CUL/TUV/CE	19.95	17.95	16.16	14.54
221858CC	Mean Well	P15B-6PJU	15	+24/0.6	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.6 x 1.6 x 1.5	6'/6'	0.5	UL/CUL/TUV/CE	17.95	16.16	14.54	13.09	
196138CC	DVE	DSA-0283A	23	+5/1, +12/1.49 -5/4.3	100-240@47-63	5-pin DIN M	No	Black	4.9 x 2.7 x 1.5	6'/3	0.8	UL/CSA/TUV	16.95	15.25	12.19	9.15	
25-65 Watt	220311CC	Horizon	SL120300	36	+12/3.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.0 x 1.2	6'/3	0.6	UL/CUL/TUV/CE	29.95	26.95	24.29	21.85
	220441CC	Horizon	SL120300RT	36	+12/3.0	100-240@50-60	2.5mm x 5.5mm F 2†	Yes	Black	4.3 x 2.0 x 1.2	6'/3	0.6	UL/CUL/TUV/CE	29.95	26.99	24.29	21.85
	224055CC	Horizon	SL120300-4.5	36	+12/3.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.0 x 1.2	4.5/3	0.6	UL/CUL/TUV/CE	29.95	26.96	21.56	16.17
	230498CC	Phihong	PSA60W-120	50	+12/4.2	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 2.5 x 1.3	6'/3	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	29.55
	230501CC	Phihong	PSA60W-180	60	+18/3.3	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 2.5 x 1.3	6'/3	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	29.55
	221612CC	Mean Well	P30B-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	25.95	23.35	20.99	18.99
	229841CC	Phihong	PSA60W-240	60	+24/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 2.5 x 1.3	6'/3	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	29.55
	288534CC	EOS	ZVC65SG2410	65	+24/2.7	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.2 x 1.7 x 1.2	4'/3	0.4	UL/CUL/CE/VDE	31.95	29.26	27.80	26.41
205911CC	Delta	ADP-25HB	25	+30/0.83	100-125@50-60	2.1mm x 5.5mm F 2	No	Black	3.5 x 2.4 x 1.2	6'/7'	1.1	UL/CUL	17.49	15.75	12.59	9.45	
3-Wire AC Input – Regulated Switching																	
5-20 Watt	221671CC	Mean Well	P30A-0P2JU	12	+3.3/3.6	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	\$21.95	\$19.92	\$18.11	\$16.46
	221567CC	Mean Well	P40A-0P2JU	15	+3.3/4.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	29.95	26.99	24.29	21.85
	308700CC	Be-Well	ZD0001F	5	+5/1.0	100-240@50-60	2.1mm x 5.5mm F 2†	No	Black	4.2 x 2.0 x 1.6	6'/2	0.4	UL/CUL/TUV/CE	16.95	15.66	14.76	13.86
	309876CC	Go Forward	G112-US0520	10	+5/2.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	2.6 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	17.75	14.37	12.57	11.97
	311802CC	Li Shin	LSE0103B0510	10	+5/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.0 x 1.2	6'/2	0.4	UL/CUL/TUV/CE	13.89	11.29	9.95	9.65
	196218CC	GlobeTek	GT210891005T3	10	+5/2.0	120-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.4 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55
	305154CC	Mean Well	G15-IP2JU	12	+5/2.4	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.3 x 1.3	6'/6'	0.4	UL/CUL/TUV/CE	17.85	16.53	15.58	14.63
	228996CC	Phihong	PSA31U-050	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	24.95	23.52	22.09	20.66
	213583CC	Mean Well	P30A-1P2JU	20	+5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	303538CC	I.T.E.	UP01411120	12	+12/1.0	100-250@50-60	2.5mm x 5.5mm F 2	No	Black	4.1 x 2.5 x 1.3	4'/2	0.4	UL/CSA/TUV/CE	16.75	13.37	11.70	11.14
	228988CC	Phihong	PSA18U-120	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/2	0.5	UL/CUL/TUV/CE	22.95	20.65	18.59	16.75
	216549CC	Mean Well	KWM020-1812F	18	+12/1.5	100-240@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 1.9 x 1.5	6'/6'	0.4	UL/CUL/TUV/CE	22.95	20.65	18.59	16.75
	216531CC	Mean Well	KWM12F-P2MU	18	+12/1.5	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.0 x 1.9 x 1.5	6'/6'	0.4	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	298062CC	I.T.E.	UP01831120	18	+12/1.5	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	3.7 x 2.2 x 1.3	7'/2	0.4	UL/CUL/CE	15.45	12.21	10.68	10.17
303546CC	I.T.E.	UP01811180	18	+18/1.5	100-250@50-60	2.1mm x 5.5mm F 2	No	Black	4.1 x 2.5 x 1.3	4'/2	0.4	UL/CSA/TUV/CE	19.55	17.96	16.70	15.44	
243002CC	Mean Well	G15A-6P2JU	15	+24/0.6	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.3 x 1.3	6'/6'	0.4	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55	
159353CC	Mean Well	KA60AU	17	+5/1, ±12/0.5	100-240@50-60	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.5	6'/5'	1.0	UL/CSA/TUV	36.95	33.29	29.95	26.95	
21-29 Watt	213575CC	Mean Well	P40A-1P2JU	25	+5/5.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	29.95	26.96	21.56	17.01
	211019CC	Mean Well	KA52BJF5	25	+9/2.78	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/2	0.9	UL/CSA/TUV/CE	29.95	26.96	21.56	16.17
	211027CC	Mean Well	KA52BMODJD4	25	+9/2.78	100-240@47-63	2.1mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/6'	0.9	UL/CSA/TUV/CE	17.85	16.07	12.85	9.64
	243011CC	Mean Well	P30A-41P2JU	27	+15/1.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	25.95	23.39	21.05	18.95
	206455CC	Ault	SC100	25	+16/1.56	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/6'	1.2	UL/CUL/TUV/CE	17.95	16.16	12.92	9.69
	221680CC	Mean Well	P30A-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	26.95	24.29	21.85	19.65
	215087CC	Mean Well	P30A-8P2J	27	+48/0.56	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	21.89	19.89	18.09	16.59
	215079CC	Mean Well	P30A-8P2MU	27	+48/0.56	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	\$19.95	17.85	16.25	14.75
	196269CC	Everglow	PSU25A13	25	+5/2.5, +12/1.0	100-240@47-63	4-pin mini DIN M	No	Black	4.2 x 2.6 x 1.4	6'/4'	1.2	UL/CUL/TUV/CE	27.95	25.19	22.65	20.39
	221751CC	Mean Well	P25A13-R1BU	25	+5/2.5, +12/1.0	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	27.95	25.19	22.69	20.39

* See accessory table-top power cord chart on page 158 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord † Right angle

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Philhong, Jameco and GlobTek

3-Wire Table-Top Power Supplies Continued on Page 157

AC-to-DC Regulated Switching Table-Top Power Supplies

See page 167 for
International
Power Cords

We will change any power plug (pg 109) on any table-top power supply (100 pc. minimum).



211191CC



203043CC



211107CC



172064CC



229032CC



New Lower
Prices

Polarity 1 $\oplus \ominus \ominus$ (center negative)



Female

Polarity 2 $\ominus \oplus \oplus$ (center positive)



DIN M

SALE Quantity
SAVE

Power	Part Number	Brand ▲	Mfr. Cross Ref. No. ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
3-Wire AC Input – Regulated Switching (Continued)																	
21-29 Watt (cont)	189561CC	Phihong	PSM-3012G	26	+5/4, +12/0.5	100-240@50-60	5-pin mini DIN M	Yes	Beige	5.8 x 2.9 x 1.6	6'/1	1.3	UL/CSA	\$6.25	\$5.62	\$5.06	\$4.22
	190650CC	Ault	SW300	25	+5/4, +12/1.0	100-250@50-60	5-pin DIN M	No	Black	5.9 x 3.4 x 2.1	6'/2	1.5	UL/CSA/TUV	8.85	7.97	7.17	6.45
	221760CC	Mean Well	P25A14-R1BU	25	+5/2.5, +15/0.8	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6	0.8	UL/CUL/TUV/CE	21.59	19.61	17.83	16.20
	190959CC	Mean Well	P25A13D-R1U	26	+5/2.5, +12/0.8 -12/0.3	100-240@47-63	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.4	6'/6	1.1	CUL/TUV/CE	32.95	29.69	26.69	24.05
	221719CC	Mean Well	P25A14E-R1BU	25	+5/2.5, +15/0.3 -15/0.3	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6	0.8	UL/CUL/TUV/CE	32.95	29.69	26.69	24.05
30-40 Watt	221516CC	Mean Well	U45S102-P2JU	40	+5/8.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	4'/6	1.4	UL/CUL/TUV/CE	37.95	34.19	30.79	27.69
	206527CC	Mean Well	P40A-1-1P25U	30	+7.5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.7 x 1.5	6'/6	1.5	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
	229008CC	Phihong	PSA31U-120	30	+12/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	155213CC	Mean Well	P40A-3P2JU	40	+12/3.3	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6	0.7	UL/CUL/TUV	35.95	32.36	29.12	26.21
	297692CC	Mean Well	P40A-3P2MU	40	+12/3.3	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6	0.7	UL/CUL/VDE/CE	35.95	32.36	29.12	26.21
	229016CC	Phihong	PSA31U-150	30	+15/2.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	206471CC	Mean Well	P40A-4AR01U	30	+15/2.0	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	5.6 x 2.9 x 1.6	6'/6	1.2	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	221575CC	Mean Well	P40A-4P2JU	40	+15/2.7	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6	0.8	UL/CUL/TUV/CE	33.95	30.56	27.50	24.75
	230480CC	Phihong	PSA31U-180	30	+18/1.6	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	21.85
	292024CC	Phihong	PSA31U-240	30	+24/1.25	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/2	0.5	UL/TUV/CE	26.95	24.25	21.85	19.65
	181884CC	Mean Well	P40A-6P2JU	40	+24/1.7	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6	0.7	UL/TUV/CE	35.95	32.36	29.12	26.21
	297756CC	Mean Well	P40A-6P2MU	40	+24/1.7	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6	0.7	UL/CUL/VDE/CE	35.95	32.36	29.12	26.21
41-49 Watt	229032CC	Phihong	PSA31U-480	30	+48/0.63	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.6	6'/2	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	221583CC	Mean Well	P40A-8P2JU	40	+48/0.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6	0.8	UL/CUL/TUV/CE	33.95	30.56	27.50	24.75
	203043CC	Ault	SC200	32	+5/4, +12/1	100-240@50-60	5-pin DIN M	No	Black	5.0 x 3.0 x 1.6	6'/2	1.3	UL/CSA/CE	19.95	17.95	14.36	10.77
	211191CC	Westinghouse	FSA30P31	30	+5/3, ±12/0.8	85-264@47-63	5-pin DIN M	No	Black	5.8 x 3.0 x 1.7	4'/2	1.1	UL/CSA/TUV	25.95	23.35	18.68	14.01
	221532CC	Mean Well	U45S106-P2JU	45	+15/3.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6	1.3	UL/CSA/TUV/CE	37.95	34.15	30.75	27.65
50-59 W	221559CC	Mean Well	U45S111-P2JU	48	+48/1.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6	1.3	UL/CUL/TUV/CE	34.95	31.46	27.50	23.54
	215132CC	Mean Well	U45T302-R1BU	42	+5/5, +12/1, -12/0.3	90-264@47-63	5-pin DIN M	Yes	Black	5.8 x 3.1 x 1.8	4'/6	1.4	UL/CUL/TUV/CE	49.95	44.99	40.49	36.45
	211107CC	Fortron	FSA55P31	45	+5/5, +12/3 -12/0.5	85-264@50-60	5-pin DIN M	Yes	Black	7.0 x 3.8 x 2.2	4'/2	1.6	UL/CSA/TUV	49.95	44.96	35.96	26.24
	237366CC	Mean Well	P50A14E-R1BU	42	+5/3.5; +15/1.2 -15/0.3	100-240@47-63	5-pin DIN M	Yes	Black	5.8 x 3.0 x 1.7	4'/6	1.2	UL/CUL/TUV/CE	36.95	33.25	29.95	26.95
60-80 Watt	221487CC	Mean Well	SPU50-1U	50	+5/10	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6	2.0	UL/CUL/TUV/CE	36.95	33.95	31.95	29.49
	221541CC	Mean Well	U45S108-P2JU	50	+24/2.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6	1.3	UL/CSA/TUV/CE	34.95	31.46	27.50	23.54
	221701CC	Mean Well	P50A13D-R1BU	50	+5/4.0, +12/2.0 -12/0.5	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6	1.5	UL/CUL/TUV/CE	48.95	44.09	39.69	35.69
60-80 Watt	155230CC	Mean Well	SPU50-3U	60	+12/5.0	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95
	297212CC	Mean Well	SPU50-3P2MU	60	+12/5.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6	1.3	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95
	182959CC	Elpac	W7212	72	+12/6.0	95-250@47-63	5-pin DIN F		Black	6.2 x 3.8 x 2.6	6'/6	2.5	UL/CSA/CE	54.95	49.49	39.59	29.69
	221428CC	Mean Well	U65S105-P2JU	80	+12/6.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6	2.0	UL/CUL/TUV/CE	64.95	58.46	52.61	43.84
	221436CC	Mean Well	U65S106-P2JU	80	+15/5.33	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	243045CC	Mean Well	P66A-5P2JU	66	+18/3.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6	1.2	UL/CUL/TUV/CE	38.49	34.91	32.21	29.55
	221444CC	Mean Well	U65S107-P2JU	80	+18/4.4	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	161605CC	Mean Well	SPU50-6U	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.6	1'9/16	1.3	UL/CSA/TUV	44.95	39.95	35.95	32.95
	297633CC	Mean Well	SPU50-6P2MU	60	+24/2.5	95-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6	1.3	UL/CUL/TUV/CE	44.95	39.95	35.95	32.95
	221452CC	Mean Well	U65S108-P2JU	80	+24/3.3	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	172064CC	Mean Well	SPU50-9U	60	+48/1.25	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.7	6'/6	1.3	UL/CSA/TUV	44.95	40.49	36.45	32.79
	221461CC	Mean Well	U65S111-P2JU	80	+48/1.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6	2.0	UL/CSA/TUV	64.95	55.29	49.95	47.49

* See accessory table-top power cord chart on page 158 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, Jameco and GlobTek

Corporate Customers

Even lower OEM pricing for larger orders! Call 1-800-831-4242 for details today.

AC-to-DC Regulated Linear Table-Top Power Supplies

Color Code Legend
New Sale Qty Save Closeout

We will change any power plug (pg 109) on any table-top power supply (100 pc. minimum).

See page 167 for International Power Cords



211060CC



174852CC



265295CC



243088CC



240127CC



Polarity 1 ⊕ ⊖ ⊖ (center negative)

Female

Male

Polarity 2 ⊖ ⊖ ⊕ (center positive)

Quantity
SAVE

Power	Part Number	Brand ▲	Mfr. Cross Ref. No. ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
2-Wire AC Input – Regulated Linear																	
5-25W	211060CC	Pacific Data	DV-51AAT	5	+5/1	120@60	2.1mm x 5.5mm rt angle F 2	No	Black	3.4 x 2.7 x 2.2	6'6'6"	1.7	UL/CSA	\$11.95	\$10.76	\$8.60	\$6.45
	174844CC	Jameco	DCR2410F12	24	+24/1	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.0 x 2.5	6'6'	2.6	—	16.95	15.26	12.20	9.15
	103173CC	Jameco	JE9100	9	+5/0.6, ±12/0.25	120@50-60	5-pin DIN M	No	Black	4.8 x 3.1 x 2.5	6'6'	2.3	UL/CSA	20.95	18.89	16.99	14.95
3-Wire AC Input – Regulated Linear																	
5-20 Watts	265295CC	—	T5121000/37	12.2	+5/1, ±12/0.3	120@60	5-pin DIN M	No	Black	4.5 x 3.0 x 2.5	6'6'	2.6	UL/CSA	\$9.69	\$8.72	\$6.99	\$5.25
	154624CC	Motorola	5712-305-4C3E†	5.6	+5/0.5, ±12/0.13	120@60	8-pin mini DIN M	No	Black	2.9 x 2.6 x 1.9	6'7"2	1.2	UL/CSA	12.95	10.39	7.79	5.84
	318756CC	Adcom	WM113TT NEW	13	+5/0.86, ±12/0.3	115@60	5-pin DIN M	No	Black	4.9 x 3.0 x 2.2	6'6'	1.3	UL/CSA	31.99	27.15	25.75	24.45
	243088CC	Regal	RJM-551228	17.4	+5/0.9, ±12/0.62 -5/0.2, -28/0.16	120@60	6-pin DIN M	No	Black	5.9 x 3.6 x 2.6	6'6'	3.4	UL/CUL	16.95	15.25	12.19	9.15

† Wall-Mount * See accessory table-top power cord chart below when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, Jameco, and GlobTek

AC-to-DC Unregulated Table-Top Power Supplies

SALE
Quantity
SAVE

Power	Part Number	Brand ▲	Mfr. Cross Ref. No. ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Power (W)	Volts (VDC)/ Current (A)									1	10	50	100
2-Wire AC Input – Unregulated																	
9-30 Watts	190051CC	APS	APS48EA114	10	+7/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.3 x 1.9	6'6'	1.9	UL/CUL	\$9.95	\$8.99	\$7.19	\$5.39
	243109CC	Regal	JK-91001-N	9	+9/1.0	120@60	Stripped & Tinned	No	Black	3.3 x 2.2 x 1.9	6'6'	1.2	UL/CSA	17.95	16.19	12.95	9.69
	203182CC	Brother	A71222D	25	+11.5/2.2	120@60	2.1mm x 5.5mm F 1	No	Black	4.1 x 2.8 x 2.2	6'6'	2.0	UL/CSA	5.45	4.92	4.47	4.07
	136565CC	Jameco	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'6'	1.2	—	13.95	12.56	10.04	7.53
	140880CC	Jameco	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'6'	1.5	UL	12.95	11.66	10.49	9.44
	143714CC	—	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'6'	2.2	CUL	14.95	13.46	12.11	10.90
	143722CC	Jameco	DC1220F5	24	+12/2.0	120@60	2.5mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'6'	2.2	CUL	12.95	11.69	10.55	9.49
	143731CC	—	DC1220M3	24	+12/2.0	120@60	3.5mm M 2	No	Black	3.8 x 2.8 x 2.3	6'6'	1.9	CUL	12.95	11.49	9.39	6.99
	220919CC	Jameco	EFU135170	23	+13.5/1.7	120@60	2.1mm x 5.5mm F 1	No	Black	3.4 x 2.7 x 2.1	6'6'	1.8	CUL	\$8.19 4.85	4.45	3.99	3.65
	240127CC	—	FW3698	24	+24/1	120@60	2.5mm x 5.5mm F 2	No	Black	4.0 x 3.0 x 2.7	6'6'7"2"	2.5	—	14.79	13.29	11.99	9.95
	139096CC	Jameco	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.1 x 2.6	6'6'	2.5	—	14.95	13.49	12.15	10.95
	173665CC	Skyнет	DND-3005	15	+30/0.5	120-127@60	2.5mm x 5.5mm F 2	No	Black	3.0 x 2.5 x 2.2	5'9"3"2"	1.4	UL/CUL	13.29	11.99	10.75	8.95
205920CC	Skyнет	DND-3012	30	+30/1.0	120-127@50-60	2.5mm x 5.5mm F 2	No	Black	4.0 x 2.9 x 2.5	6'6'	1.7	UL/CUL	8.95	8.06	6.44	4.83	
3-Wire AC Input – Unregulated																	
15-25	319222CC	—	SPU15A-3 NEW	15	+12/1.25	120@60	Stripped & Tinned	Yes	Black	3.6 x 1.5 x 1.4	15'3"2	—	UL/CUL/CE	\$15.65	\$14.45	\$13.75	\$12.99
	157956CC	Everglow	EFU120150	18	+12/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.7 x 2.2	6'6'	2.0	UL	10.95	9.86	7.88	5.91
	196306CC	—	A51813D	23	+18/1.3	120@60	2.5mm x 5.5mm F 2	No	Black	3.6 x 2.4 x 2.0	6'6'	1.8	UL/CSA	12.95	11.69	9.34	7.04

▲ Manufacturer and Manufacturer Cross Reference Number may vary except for Mean Well, Phihong, Jameco, and GlobTek

* See accessory table-top power cord chart below when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

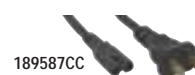


38041CC



38050CC

** Accessory Power Input Cords for Table-Top Power Supplies



189587CC

Quantity
SAVE

Part No.	Ref. No.**	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	100	250
38041CC	1	3-conductor power cord	Beige	18/3	UL/CSA	6'	0.4	SVT	\$3.49	\$3.15	\$2.79	\$2.49
38050CC	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	3.75	3.29	2.89	2.17
189587CC	3	2-conductor power cord	Black	18/2	UL/CSA	6'	0.3	SPT	2.95	2.65	2.39	2.15

For Additional Power Cords See Page 168.

GlobTek®

AC-to-DC Medical Table-Top Regulated Switching Power Supplies

- Input voltage: 90-264VAC @ 47-63Hz
- 3-wire AC input
- Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5%
- Ripple and noise: 1% or 100mV, whichever is smaller
- 2.5mm x 5.5mm female center positive
- Cord length (DC/AC): 6' / use P/N 38050CC
- Size: 2.9"L x 2.0"W x 1.6"H
- UL/CUL/TUV/CE approved for medical applications



Now Lower Prices

Part Number	Product Number	Power (W)	Output Volts (VDC)/Current (A)	Pricing			
				1	10	50	100
230658CC	TR9CA2600CP	13.0	+5/2.6	\$32.95	\$29.65	\$26.69	\$23.99
230682CC	TR9CE1250CP	15.6	+12/1.3	32.95	29.65	26.69	23.99
230691CC	TR9CG1200CP	18.0	+15/1.2	32.95	29.65	26.69	23.99
230711CC	TR9CI750CP	16.8	+24/0.7	32.95	29.65	26.69	23.99
230738CC	TR9CA6000LCP	30.0	+5/6.0	52.95	47.65	42.89	38.59
230762CC	TR9CE4000LCP	49.2	+12/4.0	52.95	47.65	42.89	38.59
230771CC	TR9CG3333LCP	49.5	+15/3.3	52.95	45.98	39.03	32.08
230797CC	TR9CI2100LCP	50.4	+24/2.1	52.95	47.65	42.89	38.59



GlobTek®

AC-to-DC Medical Regulated Switching Wall Adapters

- Input voltage: 100/240VAC @ 47-63Hz
- 3-prong input plug
- Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5%
- Ripple and noise: 1% or 100mV, whichever is smaller
- 2.5mm x 5.5mm female center positive
- Output cord length: 6'
- Size: 2.9"H x 1.9"W x 1.6"D
- Agency approval: UL/CUL/TUV/CE approved for medical applications



Now Lower Prices

SALE

Part Number	Product Number	Power (W)	Output Volts (VDC)/Current (A)	Pricing			
				1	10	50	100
230818CC	WR92A2600LCP	13.0	+5@2.6	\$32.95	\$30.95	\$27.86	\$25.07
230842CC	WR92E1250LCP	15.6	+12@1.3	32.95	30.95	27.86	25.07
230851CC	WR92G1200LCP	18.0	+15@1.2	32.95	30.95	27.86	25.07
230877CC	WR92I750LCP	16.8	+24@0.75	32.95	30.95	27.86	25.07

For Open-Frame Medical Power Supplies see page 139.

AC-to-DC Regulated Switching Wall Adapters

Interchangeable Plug Wall Adapters

- Field changeable AC Plugs (sold separately, see below)
- Power-On LED
- Input voltage: 90-264VAC@47-63Hz
- Output connector: 2.1mm x 5.5mm female center positive

- Regulated output
- Double insulated
- Class B EMI

4 to 5-Watt Wall Adapters (Plug clip required, see below)

- Applications: PDAs, digital cameras, MPEG players, personal electronics
- Dimensions: 2.8"L x 1.8"W x 1.2"H

- Efficiency: 60% min.
- Weight: 0.3 lbs.



228849CC shown with plug clip included

228814CC shown with plug clip not included

SALE



Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228734CC	Phihong	PSA05R-033	4.0	3.3	1.2	50	±1%	±5%	\$16.69	\$15.15	\$13.79	\$12.44
228742CC	Phihong	PSA05R-050	5.0	5.0	1.0	50	±1%	±5%	16.69	15.15	13.79	12.44
228751CC	Phihong	PSA05R-090	5.0	9.0	0.56	90	±1%	±5%	16.69	15.15	13.79	12.44
228769CC	Phihong	PSA05R-120	5.0	12.0	0.42	120	±1%	±5%	16.69	15.15	13.79	12.44

6 to 10-Watt Wall Adapters (Plug clip required, see below)

- Applications: wireless communications, portable equipment, digital camera, peripherals, networking
- Dimensions: 3.4"L x 2.1"W x 1.4"H

- Weight: 0.3 lbs.

- Efficiency: 65% typical

SALE



Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228785CC	Phihong	PSA11R-033	6.6	3.3	2.0	50	±1%	±5%	\$17.69	\$16.07	\$15.15	\$14.24
228793CC	Phihong	PSA11R-050	10.0	5.0	2.0	50	±1%	±5%	17.69	16.07	15.15	14.24
228806CC	Phihong	PSA11R-090	10.0	9.0	1.1	90	±1%	±5%	17.69	16.07	15.15	14.24
228814CC	Phihong	PSA11R-120	10.0	12.0	0.83	120	±1%	±5%	17.69	16.07	15.15	14.24
228822CC	Phihong	PSA11R-150	10.0	15.0	0.67	150	±1%	±5%	17.69	16.07	15.15	14.24
228777CC	Phihong	PSA11R-240	10.0	24.0	0.42	240	±1%	±5%	17.69	16.07	15.15	14.24

15 to 20-Watt Wall Adapters with LoadSense™ (Plug clip required, see below)

- Senses and controls the voltage out the connector, eliminating the effect of a voltage drop in the cable
- Applications: peripherals, portable equipment, gaming machines, point-of-sale equipment, network equipment
- Dimensions: 3.9"L x 2.5"W x 1.4"H

- Efficiency: 70% Typical

SALE



Part No.	Manufacturer	Product No.	Power (W)	Output Voltage (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	1	5	25	100
228831CC	Phihong	PSA21R-050	15.0	5.0	3.0	50	±1%	±2%	\$27.15	\$24.65	\$23.32	\$21.99
228849CC	Phihong	PSA21R-120	20.0	12.0	1.67	120	±1%	±2%	27.15	24.65	23.32	21.99
228857CC	Phihong	PSA21R-150	20.0	15.0	1.33	150	±1%	±2%	27.15	24.65	23.32	21.99
229745CC	Phihong	PSA21R-180	20.0	18.0	1.11	180	±1%	±2%	27.15	24.65	23.32	21.99
228873CC	Phihong	PSA21R-240	20.0	24.0	0.83	240	±1%	±2%	27.15	24.65	23.32	21.99

AC Plug Clips and Plug Clip Kits (sold separately, required for above adapters)

Part No.	Manufacturer	Product No.	Description	1	10	50	100
229155CC	Phihong	RPA	USA Plug	\$.53	\$.51	\$.50	\$.49
229163CC	Phihong	RPE	European Plug	.61	.59	.58	.57
229171CC	Phihong	RPK	UK Plug	.99	.97	.94	.91
229180CC	Phihong	RPKIT	Kit w/ RPA/RPE/RPK/RPS (AUST)	2.65	2.39	2.32	2.25



AC-to-DC Regulated Switching Wall Adapters

JAMECO ReliaPro
✓ Reliable & Consistent
✓ Professional Grade
✓ Value Priced
✓ Backed by Jameco

Color Code Legend
New Sale Qty Save Closeout

JAMECO ReliaPro

A Jameco
EXCLUSIVE

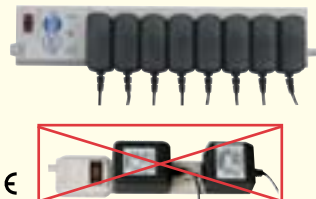
"Slim Line" Regulated Switching Wall Adapters

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

- 2-wire AC input
- Input voltage: 100 – 240VAC@47-63Hz
- Output cord length: 6'
- Output connector: 2.1mm x 5.5mm F2 (center positive)

We'll Brand the Adapters
With Your Company Name
Call 1-800-831-4242 for Details

- Color: black
- One year warranty

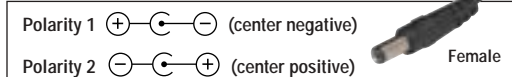
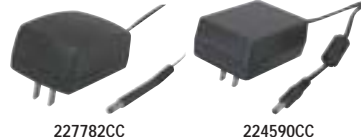


Part Number	Product Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volts (VDC)	Current (mA)			1	10	50	100
251563CC	S08AA033150	3.3	1500	2.5x1.1x1.7	0.2	\$10.95	\$9.94	\$9.17	\$8.85
251598CC	S15AA033250	3.3	2500	2.9x1.3x2.2	0.3	11.49	10.43	9.63	9.29
252700CC	S08AB050050	5.0	500	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48
252718CC	S08AB050100	5.0	1000	2.5x1.1x1.7	0.2	10.95	9.94	9.17	8.85
252726CC	S08AB050150	5.0	1500	2.5x1.1x1.7	0.2	11.49	10.43	9.63	9.29
252734CC	S15AB050250	5.0	2500	2.9x1.3x2.2	0.3	11.95	10.85	9.99	9.64
252742CC	S08AD090025	9.0	250	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48
252751CC	S08AD090050	9.0	500	2.5x1.1x1.7	0.2	10.95	9.94	9.17	8.85
252769CC	S08AD090090	9.0	800	2.5x1.1x1.7	0.2	11.49	10.43	9.63	9.29
252777CC	S15AD090120	9.0	1200	2.9x1.3x2.2	0.3	11.95	10.85	9.99	9.64
252785CC	S15AS090170	9.0	1500	2.9x1.3x2.2	0.3	12.49	11.34	10.47	10.10
252793CC	S08AE120025	12.0	250	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48

Part Number	Product Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volts (VDC)	Current (mA)			1	10	50	100
252806CC	S08AE120050	12.0	500	2.5x1.1x1.7	0.2	\$10.95	\$9.94	\$9.17	\$8.85
252814CC	S08AE120070	12.0	600	2.5x1.1x1.7	0.2	11.49	10.43	9.63	9.29
252822CC	S15AE120100	12.0	1000	2.9x1.3x2.2	0.3	11.95	10.85	9.99	9.64
252831CC	S15AE120140	12.0	1250	2.9x1.3x2.2	0.3	12.95	11.76	10.85	10.47
252881CC	S08AF150013	15.0	130	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48
252890CC	S08AF150050	15.0	500	2.5x1.1x1.7	0.2	11.49	10.43	9.63	9.29
254756CC	S15AF150080	15.0	800	2.9x1.3x2.2	0.2	11.95	10.85	9.99	9.64
252902CC	S15AF150120	15.0	1200	2.9x1.3x2.2	0.3	12.95	11.76	10.85	10.47
252849CC	S08AH240013	24.0	130	2.5x1.1x1.7	0.2	10.49	9.52	8.79	8.48
252857CC	S08AH240025	24.0	250	2.5x1.1x1.7	0.2	10.95	9.94	9.17	8.85
252865CC	S15AH240050	24.0	500	2.9x1.3x2.2	0.3	11.95	10.85	9.99	9.64
252873CC	S15AH240063	24.0	630	2.9x1.3x2.2	0.3	12.49	11.34	10.85	10.47

2-Wire AC Input – AC-to-DC Regulated Switching Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.
We will change any power plug (pg 109) on any DC wall adapter listed (100 pc. minimum).



Part Number	Brand	Product Number	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
230543CC	Phihong	PSA05A-050	5	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.4 x 1.8 x 1.0	Black	4'	0.4	UL/CUL	\$10.95	\$9.86	\$7.88	\$5.91
228881CC	Phihong	PSC10A-050	5	2000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.09	11.88	11.12	10.36
210892CC	ReliaPro	EPA101MU	5	2000	2.5mm x 5.5mm F 2	100-240@50-60	3.2 x 2.4 x 1.3	Black	6'	0.4	UL/CUL	12.95	11.66	10.49	9.44
210893CC	ReliaPro	S15AB050200	5	2000	2.5mm x 5.5mm F 2	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	12.95	11.69	10.49	8.75
236751CC	GlobTek	WR92A2600CCP†	5	2600	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.9 x 1.6	Black	6'	0.5	UL/CUL/TUV/CE	13.49	12.15	10.95	9.85
228937CC	Phihong	PSC15A-050	5	3000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
228890CC	Phihong	PSC10A-090S	9	1100	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.79	11.99	10.99	10.49
228945CC	Phihong	PSC15A-090	9	1600	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
227782CC	Mean Well	KWM020-09B	9	1670	2.1mm x 5.5mm F 2	90-264@47-63	1.6 x 2.0 x 2.9	Black	6'	0.4	UL/CSA	13.55	12.29	11.35	9.89
230551CC	Phihong	PSA05A-120	12	420	2.1mm x 5.5mm F 2	90-264@47-63	2.4 x 1.8 x 1.0	Black	6'	0.4	UL/CUL	\$16.39 15.49	14.46	13.43	12.40
229753CC	Phihong	PSC10A-120S	12	830	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.95	11.89	10.99	10.59
228953CC	Phihong	PSC15A-120	12	1250	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
312864CC	Mean Well NEW	ES18U12	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.2 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE	12.29	11.35	10.62	9.89
228911CC	Phihong	PSC10A-150S	15	670	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	\$12.95 11.95	11.46	10.99	10.49
224590CC	Mean Well	LI5D15B-P1J	15	1000	2.1mm x 5.5mm F 2	90-240@50-60	3.2 x 2.2 x 1.3	Black	6'	0.5	UL/CSA	13.55	12.29	11.35	9.89
228961CC	Phihong	PSC15A-150	15	1000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	\$13.55 12.49	11.95	11.39	10.83
168487CC	Mean Well	KWM020188	18	1000	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL	17.95	16.19	13.75	10.35
228929CC	Phihong	PSC10A-240S	24	420	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	\$12.95 11.95	11.46	10.99	10.49
228970CC	Phihong	PSC15A-240	24	620	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95

Other Manufacturers — Limited Great Deals

225995CC	Delta Electronics	ADP-5DB	5	1000	2.5mm x 5.5mm F 2	100-120@50-60	2.5 x 1.8 x 1.1	Black	6'	0.2	UL	\$10.95	\$9.85	\$7.89	\$5.89
308048CC	Potrans NEW	UWP010210500	5	1500	2.1mm x 5.5mm right angle F 2	100-240@60	2.8 x 1.4 x 2.1	Black	10'2"	0.5	UL/CUL	11.75	9.88	9.51	8.55
216442CC	AK II Power Supply	A05C1-05MP	5	1600	2.5mm x 5.5mm F 2	100-240@50-60	2.2 x 1.8 x 1.1	Black	6'	0.4	UL/CUL/CE	12.95	11.65	10.49	9.49
189190CC	Interex	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	12.49	11.24	8.99	6.74
305066CC	Ault	SC102TA0503B01	5	3000	2.5mm x 5.5mm F 2	100-240@47-63	2.9 x 2.0 x 1.6	Black	6'	0.5	UL/CUL	11.65	10.76	10.06	9.36
249324CC	Phillips	A600M101	12	500	2.1mm x 5.5mm F 2	100-240@50-60	2.4 x 1.8 x 1.0	Black	6'	0.4	UL/CSA	13.19	11.89	9.49	7.15
298054CC	DVE	DSA-009-12A	12	750	2.1mm x 5.5mm F 2	90-132@47-63	2.7 x 1.1 x 1.8	Black	6'	0.3	UL/CUL	11.89	10.97	10.24	9.49
235096CC	DVE	DSA-0151A-12S	12	1250	2.1mm x 5.5mm F 2	100-120@50-60	3.2 x 2.1 x 1.4	Black	6'	0.3	UL/CUL	13.49	12.15	10.95	9.85

▲ Brand and product number may vary except for Mean Well, Phihong, Globtek and ReliaPro

† 3-wire AC input

Order Anytime 24x7x365

Phone 1-800-831-8242 Online www.Jameco.com Fax 1-800-237-6948

AC-to-DC Wall Adapters continued on pages 161 - 164

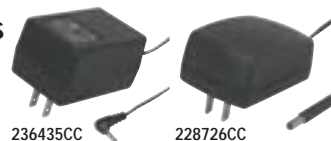
AC-to-DC Regulated Linear Wall Adapters



2-Wire AC Input – AC-to-DC Regulated Linear Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 109) on any DC wall adapter listed (100 pc. minimum).



- One-year warranty

Polarity 1 $\oplus - \bullet - \ominus$ (center negative) Polarity 2 $\ominus - \bullet - \oplus$ (center positive)



Fem



**New Lower
Prices**

Quantity
SAVE

Prices SAVE															
Part Number	Brand▲	Product Number▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
164101CC	ReliaPro	RDU050050	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	\$9.95	\$8.96	\$8.06	\$7.25
220935CC	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	12.29	11.06	9.95	8.96
196411CC	ReliaPro	DDU050100	5	1000	2.1mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Ivory	6'	1.0	UL/CUL	10.95	9.86	8.87	7.98
168605CC	ReliaPro	DBU050100	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	11.39	10.49	9.65	8.29
190512CC	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	6.95	6.26	5.44	4.06
220898CC	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	7.85	7.06	5.65	4.24
162996CC	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	9.95	8.96	8.06	7.25
170245CC	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120@60	2.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	13.95	12.59	11.35	10.19
249244CC	ReliaPro	DFU120150	12	1500	2.1mm x 5.5mm F 2	108-132@50-60	3.3 x 2.7 x 2.2	Black	6'	0.4	UL/CUL	14.95	13.49	12.15	10.95
174861CC	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	11.95	10.79	9.69	8.75
174879CC	ReliaPro	RFU240050	24	500	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	11.95	10.79	9.69	8.75

Other Manufacturers — Limited Great Deals

236435CC	APX	AP2814	5	300	1.3mm x 3.5mm right angle F 2	120@60	2.9 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	\$7.15	\$6.45	\$5.15	\$3.85
289182CC	AESP	AD-5600RDU	5	600	2.1mm x 5.5mm F 2	120@60	3.1 x 2.8 x 1.9	Black	6'	0.9	UL/CUL	10.49	9.45	7.55	5.65
171301CC	Imitation	JOD48U08	5	1000	2.1mm x 5.5mm F 2	120@60	3.1 x 2.9 x 2.0	Black	6'	1.0	UL/CUL	10.95	9.89	8.89	7.99
297941CC	—	JOD-480-08	5	1000	2.5mm x 5.5mm F 2	120@60	3.1 x 2.3 x 1.9	Black	6'	0.9	UL	10.99	9.24	8.90	8.00
287226CC	ORB	777-052000S-UF	5	2000	2.1mm x 5.5mm F 2	100@50-60	3.1 x 2.1 x 1.5	Black	5'	0.5	UL/CUL	12.95	11.66	10.49	9.44
308689CC	Fairway Elec.	WN10A-050 NEW	5	2000	2.5mm x 5.5mm F 2	100-240@50-60	3.0 x 2.0 x 1.2	Black	6'	0.4	UL/CUL/TUV/CE	11.39	10.45	9.98	9.50
248743CC	MEI	EPA-101M-05A	5	2500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.4 x 1.4	Black	6'	0.5	UL/CUL	13.49	12.14	9.71	7.28
190511CC	Salom Electric	SADB-0885	6	200	2.1mm x 5.5mm F 2	115@60	2.6 x 1.8 x 1.5	Black	6'	0.4	UL/CUL	6.25	5.65	4.89	3.65
283573CC	—	DC600500	6	500	2.1mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	7.85	7.06	5.65	4.24
190529CC	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	6.49	5.85	4.65	3.50
308671CC	Highpower	HPW-1009U NEW	9	1110	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 2.0 x 1.2	Black	6'	0.3	UL/CUL/TUV/CE	11.89	10.97	10.24	9.50

▲ Brand and Product Number may vary except for Mean Well, Phihong, Globtek and ReliaPro

2-Wire AC Input – AC-to-DC Unregulated Wall Adapters



We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 109) on any DC wall adapter listed (100 pc. minimum).



- Input: 120VAC @ 60Hz

- One-year warranty

Polarity 1 $(+) - (\bullet) - (-)$ (center negative)



Polarity 2 $\ominus - \bullet - \oplus$ (center positive)



280250CC

SALE

**New Lower
Prices**

Quantity
SAVI

Part Number	Brand	Product Number	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
112070CC	ReliaPro	DBU050022	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	\$7.29	\$6.59	\$5.95	\$5.35
155601CC	ReliaPro	DCU050100	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	5.19	4.67	3.74	2.80
119255CC	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	4.29	3.86	3.47	3.13
101266CC	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.29	3.86	3.47	3.13
15544CC	ReliaPro	DBU060050	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.29	3.86	3.47	3.13
147707CC	ReliaPro	DBU060080	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.49	4.05	3.65
220943CC	ReliaPro	DCU060120	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	6.49	5.84	4.67	3.50
220951CC	ReliaPro	DCU075100	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	9.19	8.27	6.62	4.96
280250CC	ReliaPro	DDU075110	7.5	1100	2.1mm x 5.5mm F 2	1.8 x 1.2 x 0.8	Black	6'	0.9	UL/CUL	6.29	4.99	4.30	4.19
127511CC	ReliaPro	DDU080100	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	7.95	7.19	6.45	5.85
100845CC	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	2.89	2.15
134025CC	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	4.95	4.46	3.56	2.67
100837CC	ReliaPro	DBU090020	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	3.95	3.59	3.25	2.95
133891CC	ReliaPro	DBU090030	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.56	2.84	2.13
189238CC	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	4.25	3.59	2.95	2.35
318676CC	ReliaPro	DBU090030 NEW	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	3.89	3.48	3.06	2.91
202155CC	ReliaPro	DBU090035	9	350	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	3.29	2.96	2.66	2.40
140636CC	ReliaPro	DCU090040	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	4.19	3.79	3.39	3.05
202171CC	ReliaPro	DCU090045	9	450	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.5	UL/CUL	3.95	3.59	3.25	2.89
163627CC	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.49	4.95	4.45	3.95
100853CC	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	4.95	4.46	4.01	3.61
147731CC	ReliaPro	AD-11950	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	3.45	3.14	2.86	2.60
236937CC	ReliaPro	DCU090050A	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	5.79	5.21	4.69	4.22
15561CC	ReliaPro	DCU090050	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	4.85	4.36	3.93	3.54

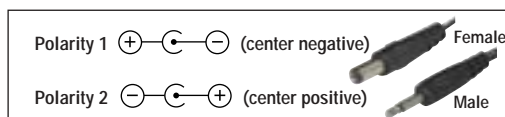
More AC-to-DC Wall Adapters listed on pages 160 & 162 - 164

AC-to-DC Unregulated Wall Adapters (Continued)

Color Code Legend
New Sale Qty. Save Closeout



We specialize in Wall Adapters – Call for additional OEM PRICING.
We will change any power plug (pg 109) on any DC wall adapter listed (100 pc. minimum).



• Input: 120VAC @ 60Hz • One-year warranty



SALE Quantity **SAVE**

Part Number	Brand	Product Number	Output Rating*		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
202180CC	ReliaPro	DCU090060	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	\$4.89	\$4.39	\$3.95	\$3.35
100175CC	ReliaPro	DCU090060	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	5.49	4.75	4.25	3.95
202198CC	ReliaPro	DCU090080	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	6.95	6.26	5.63	5.07
127504CC	ReliaPro	DC910F5-VP	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.49	6.75	6.05	5.05
15587CC	ReliaPro	DDU090100	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	7.95	7.19	6.45	5.35
130526CC	ReliaPro	DDE090120	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	8.95	8.06	6.44	4.83
143693CC	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	9.95	8.95	6.95	5.19
163993CC	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	4.79	4.31	3.88	3.49
100095CC	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.56	2.84	2.13
158043CC	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.49	4.04	3.64	3.27
220433CC	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Lt. Gray	6'	0.4	UL/CSA	4.39	3.95	3.56	3.20
185658CC	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.79	4.31	3.45	2.59
219601CC	ReliaPro	DCU120025	12	250	Stripped & tinned	2.5 x 2.0 x 1.7	Dk. Gray	6'	0.4	UL/CUL	3.95	3.56	2.84	2.13
318692CC	ReliaPro	DBU120030 NEW	12	300	1.3mm x 3.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.19	3.39	2.99	2.29
127976CC	ReliaPro	DCU120030	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	4.75	4.29	3.85	3.25
249236CC	ReliaPro	DBU120030	12	300	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.5	UL/CUL	4.85	3.85	3.39	3.09
190502CC	ReliaPro	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	6.69	6.02	4.82	3.61
114825CC	ReliaPro	DCU120050	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	CUL	4.75	4.35	3.45	2.59
15368CC	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	6.49	5.85	5.29	4.75
102496CC	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	5.25	4.16	3.64	3.46
131300CC	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	5.49	4.94	4.45	4.00
102277CC	ReliaPro	DCU120050U	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	5.19	4.67	4.20	3.78
17267CC	ReliaPro	DCU120050	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	5.19	4.67	4.20	3.78
202201CC	ReliaPro	DCU120060	12	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	4.95	4.45	3.55	2.69
202219CC	ReliaPro	DCU120070	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.19	4.67	3.74	2.80
117479CC	ReliaPro	DDU120080	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	6.95	6.29	5.65	5.09
129331CC	ReliaPro	DDU120080	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	5.49	4.95	4.45	4.05
121232CC	ReliaPro	DDU120080	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	6.19	5.57	4.46	3.34
100870CC	ReliaPro	DDU120100	12	1000	2.1mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	8.19	7.37	6.63	5.97
105478CC	ReliaPro	DDU120100	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.49	6.74	5.73	4.30
15392CC	ReliaPro	DDU120100	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.95	7.16	6.44	5.80
213559CC	ReliaPro	GPC-081	12	1000	Auto lighter power outlet	4.3 x 2.2 x 1.9	Black	—	1.1	UL/CUL	13.95	12.56	10.04	7.53
196779CC	ReliaPro	DDU120120	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.79	7.91	7.10	6.29
203036CC	ReliaPro	DDU120150	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	12.95	11.69	9.35	6.99
313226CC	ReliaPro	DFU120150 NEW	12	1500	Stripped & tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8'	1.5	UL	10.39	9.45	8.49	7.55
136881CC	ReliaPro	DFU120150	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	12.95	11.69	10.55	9.45
101291CC	ReliaPro	D571201500U	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	10.39	9.35	8.42	7.57
308099CC	ReliaPro	DDU135100 NEW	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.15	7.36	6.51	5.65
212812CC	ReliaPro	DBU140020	14	200	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	3.05	2.79	2.55	2.29
212821CC	ReliaPro	DBU140030	14	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	4.49	4.04	3.23	2.42
212839CC	ReliaPro	DCU140050	14	500	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	3.75	3.35	2.99	2.69
123932CC	ReliaPro	DDU140070	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.49	7.65	6.89	6.19
202243CC	ReliaPro	DDU140070	14	700	2.5mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	7.25	6.52	5.22	3.92
202260CC	ReliaPro	DDU140100	14	1000	2.1mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	7.95	6.95	6.25	5.59
190001CC	ReliaPro	DCU150050	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	6.49	5.84	4.67	3.50
189982CC	ReliaPro	DCU150050	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	6.95	6.29	5.05	3.79
155803CC	ReliaPro	DDU150060	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	8.95	8.06	6.44	4.83
232258CC	ReliaPro	DDU150080	15	800	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL	\$9.49 8.49	7.64	6.88	6.19
203502CC	ReliaPro	DDU150090	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	6.95	6.25	5.49	4.75
151992CC	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	8.49	7.64	6.11	4.58
191652CC	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	9.59	8.65	7.79	6.99
162317CC	ReliaPro	DDU165050	16	500	2.1mm x 5.5mm F 2	2.2 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.95	6.95	6.25	5.59
181729CC	ReliaPro	DCU180025	18	250	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	6.95	6.26	5.00	3.75
163272CC	ReliaPro	DDU180050-2	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	9.95	8.99	8.09	7.25
206958CC	ReliaPro	DDU180100	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	9.95	8.99	7.19	5.39

* See other values under "Special Limited Offers from Other Manufacturers" on page 163.

More AC-to-DC Wall Adapters listed on pages 160 - 161 & 163 - 164

New Lower Prices
Marked in Orange



AC-to-DC Unregulated Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 109) on any DC wall adapter listed (100 pc. minimum).

169519CC

227774CC

Polarity 1 $\oplus \ominus \ominus$ (center negative)

Polarity 2 $\ominus \oplus \oplus$ (center positive)

Female

Male

220901CC

217541CC

• Input: 120VAC @ 60Hz • One-year warranty

Part Number	Brand▲	Product Number▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
102285CC	ReliaPro	DDU240040	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	\$7.95	\$7.19	\$6.45	\$5.85
163635CC	ReliaPro	DDU240050	24	500	2.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	8.06	6.44	4.83
191556CC	ReliaPro	DDU240050	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	8.09	7.25	6.05
139088CC	ReliaPro	DDU240050	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	7.95	7.16	5.72	4.29
168495CC	ReliaPro	DFU240080	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	10.95	9.86	7.88	5.91
220960CC	ReliaPro	DFU240100	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	13.89	12.95	11.39	10.89
249130CC	ReliaPro	AFU240120/G8530	24	1200	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	15.95	14.85	13.09	12.49
249121CC	ReliaPro	DFU240120/G8520	24	1200	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	15.95	14.85	13.09	12.49
249113CC	ReliaPro	DFU240120/G8510	24	1200	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	15.95	14.85	13.09	12.49
199523CC	ReliaPro	DDU300050	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	9.95	8.95	8.05	6.75
215095CC	ReliaPro	MW48-4800250	48	250	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	7.95	7.15	6.49	5.79
230631CC	ReliaPro	MW48-4800250-2.1	48	250	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	UL/CUL	8.95	7.95	7.16	6.44
215108CC	ReliaPro	MW48-4800500	48	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.85	8.85	7.95
230640CC	ReliaPro	MW48-4800500-2.1	48	500	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	UL/CUL	11.95	10.75	9.69	8.95

Other Manufacturers — Limited Great Deals

237227CC	Freeplay	DX351307	4.5	100	1.3mm x 3.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	\$4.49	\$4.04	\$3.23	2.42
243070CC	Regal	WH045300-10N	4.5	300	2.1mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	6.95	6.26	5.00	3.75
219651CC	—	FE4823-050E120	5	1200	2.5mm x 5.5mm F 2	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	5.15	4.76	3.81	2.86
308697CC	Both Hand	MI-10505 NEW	5	2000	2.1mm x 5.5mm F 2	2.2 x 1.9 x 1.0	Black	6'	0.3	UL/CUL	10.65	9.82	9.44	8.50
237251CC	Freeplay	DPX350817	6	100	2.1mm x 5.5mm F 1	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.95	3.59	2.85	2.15
243117CC	Regal	WH060200-10N	6	200	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	2.85	2.15
302439CC	—	AD-0630M	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.99	3.56	3.13	2.80
201451CC	APX Technologies	AP4733	6	700	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.4	Black	6'	0.5	UL/CUL	4.95	3.95	2.95	2.19
227951CC	—	JOD-48U-33	6	2100	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	7.95	7.15	6.45	5.79
248751CC	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	6.49	5.85	4.69	3.50
249279CC	AESP	FO-AC-4305	7.5	1000	2.1mm x 5.5mm right angle F 2	3.2 x 2.0 x 1.7	Black	6'	0.8	UL/CUL	6.95	6.25	5.65	5.09
230623CC	—	MKD-48752100	7.5	2100	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	7.95	7.15	5.75	4.29
308056CC	—	A40910M	8.7	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.95	7.15	6.45	5.35
265480CC	Uniden	AD-600B	9	100	2.1mm x 5.5mm right angle F 2	2.1 x 1.4 x 1.4	Black	6'	0.3	UL/CSA	3.49	3.14	2.51	1.88
265498CC	Uniden	AD-600W	9	100	2.1mm x 5.5mm right angle F 2	2.1 x 1.4 x 1.4	White	6'	0.3	UL/CSA	3.49	3.14	2.51	1.88
237243CC	Freeplay	DPX351322	9	200	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.79	3.45	3.15	2.79
191767CC	—	CTPS350903002CO	9	300	1.3mm x 3.5mm right angle F 2	2.3 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	4.19	3.77	3.02	2.26
133891CC	—	DC903F1	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.56	2.84	2.13
189237CC	ACI World	35-9-300C	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	4.25	3.25	2.95	2.35
169519CC	Panasonic	KX-TCA1	9	350	2.1mm x 5.5mm right angle F 1	2.7 x 1.7 x 1.6	Dk. Gray	6'	0.4	UL/CSA	3.49	3.14	2.51	1.88
319177CC	Explore Tech.	41-9-5000 NEW	9	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	3.59	2.95	2.59	2.49
170270CC	Panasonic	PQLV1	9	500	2.1mm x 5.5mm right angle F 1	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	4.49	4.05	3.45	2.55
164929CC	—	DDU090100	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	7.95	7.15	5.75	4.29
100888CC	Everglow	DDU090100	9	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	7.95	7.16	5.72	4.29
227774CC	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	7.95	7.15	5.75	4.29
285958CC	APX	AP2072P	9	1000	2.5mm x 5.5mm F 2	2.5 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	6.95	6.25	4.99	3.75
127503CC	Atari	DC910F5	9	1000	2.5mm x 5.5mm F 2	3.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	8.95	6.19	5.55	4.65
237067CC	APS	D9-15-950	9	1500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.3	UL/CUL	6.89	6.99	7.19	5.39
237235CC	Freeplay	DPX351326	12	200	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.79	3.45	3.05	2.55
211238CC	Quotrek	35D-12-250	12	250	2.5mm right angle M 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.55	2.89	2.15
163491CC	—	AD1230	12	300	Connector end may vary	2.2 x 2.2 x 1.6	Black	6'	0.5	UL/CSA	4.29	3.86	3.47	3.13
201099CC	—	SPN4230A	12	300	1.3mm x 3.5mm right angle F 2	2.3 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	4.99	4.49	4.05	3.35
200125CC	Noostuff Inc.	DV1250	12	500	2.5mm x 5.5mm F 1	2.4 x 2.0 x 1.6	Black	6'	1.0	UL/CSA	4.25	3.82	3.44	3.10
305103CC	—	AD1250-5LE	12	500	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	4.89	3.94	3.45	3.28
237358CC	QSE	P155-D150567	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	0.9	UL	5.19	4.69	3.75	2.79
211051CC	Calrad	DV-1280 Dual	12	800	2.5mm x 5.5mm rt angle F 2 w/ input switch	2.6 x 2.4 x 1.9	Black	6'	0.9	—	5.39	4.85	3.95	2.95
240101CC	—	FW3288	12	1000	2.1mm x 5.5mm F 2	3.8 x 2.4 x 2.2	Black	6'	1.0	UL/CSA	7.49	6.74	5.39	4.04
199566CC	Superworld	WK1201A01DN	12	1000	2.5mm x 5.5mm F 2 (w/ RF filter)	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	6.95	6.26	5.63	5.07
189579CC	Fellowes	BCU12100	12	1000	2.5mm x 5.5mm right angle F 2	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	7.95	7.19	5.75	4.35
189211CC	ACI World	57-12-1500D	12	1500	8-pin mini DIN M	3.4 x 2.6 x 2.2	Black	3'4"	1.7	UL/CUL	4.95	4.49	3.59	2.69
129314CC	—	DV-1250	14	360	2.5mm x 5.5mm right angle F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.19	4.67	3.74	2.80
220901CC	Drake	3690454	16	250	Stripped & tinned	2.2 x 2.1 x 1.6	Black	6'	0.8	UL/CSA	3.75	3.38	3.04	2.74
217541CC	NiteRider	FE4116168C030	16.8	300	2.5mm x 5.5mm F 2 w/ LED indicator	3.1 x 2.3 x 1.6	Black	6'	0.6	UL/CUL	4.95	4.46	3.56	2.67

† 120 to 220VAC

▲ Brand and Product Number may vary except for Mean Well, Pihong, Globtek, and ReliaPro

Regulated Wall Adapters listed on pages 160 - 161



Order 24/7 Toll Free 1-800-831-4242

AC-to-DC Unregulated Wall Adapters (Continued)



Other Manufacturers — Limited Great Deals (Continued)

Part Number	Brand▲	Product Number▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
217568CC	NiteRider	FE4126180P040	18	400	2.5mm x 5.5mm F 2 w/ LED indicator	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	\$5.99	\$5.39	\$4.31	\$3.23
206957CC	Globtek	WD1H1000LCX	18	1000	2.5mm x 5.5mm F 2	3.4 x 2.6 x 2.1	Black	6'	1.4	—	9.95	8.96	8.06	7.25
196322CC	3Com	P48240600A020G	24	600	2.1mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.1	UL/CSA	8.95	8.05	6.85	5.15
15309CC	—	900-051	3, 4.5, 6, 7.5, 9, 12	500	1.35 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.49	8.54	7.69	6.92
190641CC	—	DCM08	3, 4.5, 6, 7.5, 9, 12	800	2.5, 3.5 Male, 9V battery snap (LED ind.)	3.9 x 2.7 x 2.3	Black	6'	0.9	UL/CSA	7.95	7.19	5.75	4.29
123158CC	—	900-100 †	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.35 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female	3.7 x 2.2 x 2.5	Black	6'	0.9	—	10.95	9.86	8.87	7.98

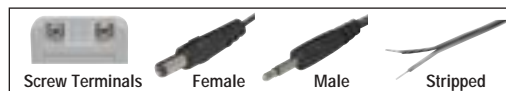
▲ Brand and product number may vary except for Mean Well, Phihong, Globtek and ReliaPro

2-Wire AC Input – AC-to-AC Wall Adapters



We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 109) on any DC wall adapter listed (100 pc. minimum).



• Input: 120VAC @ 60Hz • One-year warranty

Part Number	Brand▲	Product Number▲	Output Rating		Output Connector ID x OD Plug Type F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing				
			Voltage (VAC)	Current (mA)							1	10	50	100	
249017CC	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	\$5.19	\$4.69	\$4.29	\$3.59	
219619CC	ReliaPro	ABU09005	9	50	2.1mm x 5.5mm F	2.2 x 1.8 x 1.5	Black	6'	0.3	UL/CSA	\$2.05	1.65	1.51	1.38	1.25
100061CC	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	4.59	4.13	3.30	2.48	2.48
233293CC	ReliaPro	ACU090080	9	800	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL	4.69	4.25	3.39	2.55	2.55
236814CC	ReliaPro	ACU090080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	4.95	4.49	4.05	3.65	3.65
102234CC	ReliaPro	ACU090100	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	5.49	4.94	4.45	4.00	4.00
157041CC	ReliaPro	ACU090100	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	6.95	6.29	5.65	5.09	5.09
112336CC	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	9.95	8.96	8.06	7.25	7.25
101258CC	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	4.59	4.15	3.65	3.29	3.29
10081CC	ReliaPro	ACU120100	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67	4.20	3.78	3.78
100167CC	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.19	4.67	4.20	3.78	3.78
10428CC	ReliaPro	ACU120100	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	5.19	4.67	4.20	3.78	3.78
167151CC	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	4.95	4.49	3.99	3.35	3.35
307838CC	ReliaPro	ADU120160	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	12.69	10.17	8.90	8.45	8.45
153761CC	ReliaPro	ADU120160	12	1600	3.5mm M	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	10.95	9.86	8.87	7.98	7.98
171408CC	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.49	4.04	3.23	2.42	2.42
318684CC	ReliaPro	ACU140085 NEW	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	10.85	8.18	7.30	6.23	6.23
100108CC	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	7.95	7.19	6.45	5.85	5.85
163053CC	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	8.95	7.99	6.44	4.83	4.83
121216CC	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	8.95	8.05	7.25	6.15	6.15
87581CC	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	5.19	4.67	4.20	3.78	3.78
140599CC	ReliaPro	ADU240100	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	8.95	8.09	6.49	4.89	4.89
10102CC	ReliaPro	ADU240100	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	7.95	7.19	6.45	5.85	5.85
176356CC	ReliaPro	AFU240125	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	CSA	10.49	9.44	8.50	7.65	7.65

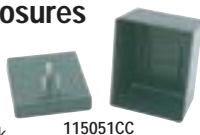
Other Manufacturers — Limited Great Deals

101127CC	Siemens	DFX10096B	7	1500	2.5mm x 5.5mm F	1.9 x 2.2 x 2.0	Black	7'6"	0.8	UL/CSA	\$4.95	\$4.49	\$3.95	\$3.49	
219660CC	Sincore	SLA40810	8	1000	2.1mm x 5.5mm F	2.2 x 2.1 x 1.6	Black	6'	0.7	UL/CSA	\$4.79	3.09	2.79	2.51	2.26
210729CC	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	3.95	3.55	2.84	2.13	2.13
184751CC	PhoneMate	M/N40	9	450	2.1mm x 5.5mm right angle F	2.8 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	4.59	4.13	3.30	2.48	2.48
226131CC	US Robotics	AA0950	9	500	2.5mm x 5.5mm F	2.5 x 2.1 x 1.7	Black	6'	0.5	UL/CSA	4.49	4.04	3.23	2.42	2.42
249295CC	Pacrim	41A-9-700	9	700	2.5mm x 5.5mm F	2.3 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	4.49	3.99	3.65	3.29	3.29
217550CC	Frino	FW6798	9	1900	Stripped and tinned	2.8 x 2.5 x 2.0	Black	6'8"	1.1	UL/CSA	8.49	7.64	6.11	4.58	4.58
210745CC	Leader Electronics	A4110050T	10	500	2.1mm x 5.5mm F	3.0 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	2.65	2.39	2.19	1.99	1.99
265455CC	—	FW6199	12	200	2.1mm x 5.5mm F	2.1 x 1.9 x 1.9	Black	6'7"	0.5	UL	3.09	2.78	2.22	1.67	1.67
211271CC	Orig. Elec. Mfg.	AA-1250	12	500	2.5mm x 5.5mm F	2.3 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	4.59	4.13	3.30	2.48	2.48
285069CC	Shogyo	DV-1283	12	830	2.5mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.55	4.13	4.13	4.13
309884CC	—	AA-121A NEW	12	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	—	UL/CUL	4.89	4.39	3.96	3.35	3.35
206404CC	MG Electronics	MGT1220	12	1670	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	6.95	6.29	5.65	5.09	5.09
210737CC	ITE Power Supply	PPI-1212UL	13	1200	2.1mm x 5.5mm F	3.3 x 2.4 x 2.0	Black	6'	0.9	UL/CUL	4.95	4.49	3.59	2.69	2.69
171854CC	Racal	DV1485AC	14	850	2.5mm x 5.5mm right angle F	3.0 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	6.95	6.25	5.65	4.69	4.69
201101CC	Motorola	SPN4340A	15	200	1.3mm x 3.5mm F	2.2 x 1.8 x 1.5	Black	6'	0.5	UL/CSA	1.69	1.52	1.22	.91	.91
227791CC	Ault	T41180500A0206	18	500	2.1mm x 5.5mm F	2.6 x 1.9 x 1.7	Black	6'	1.1	CSA	5.19	4.67	3.74	2.80	2.80
185439CC	Ault	T5182200-A020G	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	CSA	7.49	6.74	6.07	5.46	5.46
308718CC	Comtrend	ACU-190051 NEW	19	510	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	5.39	4.85	4.39	3.65	3.65
206421CC	MG Electronics	MGT2410	24	420	Screw terminals	2.5 x 2.0 x 1.7	White	—	0.6	UL/CSA	6.49	5.84	5.26	4.73	4.73
240119CC	—	FW6798	24	500	2.5mm x 5.5mm F	2.8 x 2.5 x 2.2	Black	6'8"	0.8	UL/CSA	4.95	4.49	3.99	3.65	3.65
206439CC	MG Electronics	MGT2420	24	830	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	7.19	6.49	5.85	5.25	5.25
305091CC	Ault	3264024000A1	24	1600	3.5mm M	2.9 x 2.7 x 2.2	Black	6'	1.5	UL	9.95	8.54	8.06	7.25	7.25

▲ Brand and product number may vary except for Mean Well, Phihong, Globtek and ReliaPro

Wall Adapter Enclosures

- Enclosures include 3-prong power plug and cable strain relief
- Size: 3.4"H x 2.7"W x 2.3"D
- Material: noryl • Color: black



Part No.	Style	1	10	100
115051CC	Non-vented	\$2.25	\$1.95	\$1.69
115043CC	Vented	2.25	1.95	1.69

AC-to-AC Table-Top Step-Down Adapter

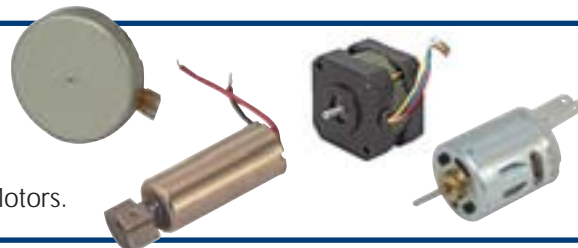
- Input voltage: 120VAC @ 60Hz
- Output current: 4.0A
- Output plug: 2.1mm (ID) x 5.5mm (OD) female
- Attached AC cord
- Agency approvals: CSA
- Size: 3.7"L x 2.9"W x 2.5"H
- Output volts: 16VAC
- Output watts: 64W
- Cord (AC/AC): 6'/6'
- Color: black
- Weight: 2.8 lbs.



Part No.	Manufacturer	Product Number	1	10	50
176604CC	Jameco	TA661640	\$12.95	\$11.65	\$10.49



Jameco's expanded selection of motors is on pages 110-115. We stock the largest selection of DC, DC Gear Head, Stepper (Unipolar and Bipolar), and Vibrating Motors.



Power Transformers and Variable Transformers

6VAC/9VAC Dual Output Power Transformer

- 12VA
- Input voltage: 120VAC
- Output voltage: 6VAC @ 500mA center tap (blue wires); 9VAC @ 1A center tap (yellow wires)
- Size: 2.1"L x 3.2"W x 2.0"H • Weight: 1.3 lbs.



Part No.	Mfr. Cross Ref. No.	1	10	100
183089CC	YS57H-099FAA	\$3.95	\$3.56	\$2.84

120VAC to 120VAC Isolation Transformer

- 300VA
- Input voltage: 120VAC @ 60Hz
- Input connector: 5.5' cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D • Weight: 7.0 lbs.

Quantity
SAVE



Part No.	Mfr. Cross Ref. No.	1	10	100
181315CC	ITR300	\$44.95	\$38.21	\$28.66

EMI Suppression Cores with Case

Reduce Electro Magnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



Part No.	Size (OutDia. x InDia. x L)	1	10	100
218173CC	.64" x .20" x 1.15"	\$.99	\$.89	\$.79
217841CC	.78" x .34" x 1.40"	1.45	1.29	1.15
318705CC	.82" x .45" x 1.42" NEW	1.39	1.29	1.25

Jameco Special Values!

Sale items highlighted in yellow.

Great quantity discounts highlighted in green.



320VA Variable AC Transformer

- Input voltage: 110VAC @ 60Hz (using pin 1-2) 110VAC @ 50Hz (using pin 1-4)
- Matching input/output terminals: P/N 103667CC and 109111CC (disconnect .25" solderless terminals), pg 108
- Maximum current: 2.5A
- Size: 2.8"Dia. x 2.1"H
- Weight: 2.5 lbs.
- Panel mount
- Shaft length: 0.5"
- One-year warranty



Includes: 3 disconnect .25" solderless terminals

Part No.	Description	1	10	50
149323CC	320VA variable	\$53.95	\$48.59	\$43.75

550VA Variable AC Transformer

- Input voltage: 110VAC @ 60Hz
- Output voltage: 0-140VAC
- Rated current: 5A
- Panel mount
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs. • One-year warranty



Part No.	Description	1	10	50
152936CC	550VA variable	\$62.95	\$56.66	\$50.99

500VA & 2000VA Variable Transformers

- Input voltage: 110VAC @ 60 Hz
- Power: 500 or 2000VA
- Output voltage: 0 to 130VAC
- Output analog voltmeter
- Input conn.: 3-prong plug w/ 5' cord
- Output conn.: 3-prong outlet type
- Lighted on/off power switch
- 169640CC: • 5A @ 250V fuse
- Size: 8.3"L x 6.5"W x 7.0"H
- Weight: 15.6 lbs.
- 169658CC: • 20A @ 250V fuse
- Size: 9.8"L x 8.0"W x 7.0"H
- Weight: 26.5 lbs.



Part No.	Description	1	10	50
169640CC	500VA trans.	\$89.95	\$80.96	\$72.86
169658CC	2000VA trans.	130.95	117.85	106.07

500-2000VA Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/ European output plugs
- Lighted on/off power switch



Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121275CC	3A/250V (P/N 69438CC)	5.3 x 7.3 x 7.0	10.4
129007CC	5A/250V (P/N 10401CC)	9.4 x 6.5 x 7.7	14.8
152581CC	10A/250V (P/N 69462CC)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121275CC	500VA trans.	\$79.95	\$69.95	\$62.95
129007CC	1000VA trans.	164.95	148.49	133.65
152581CC	2000VA trans.	174.95	158.45	139.95

The Best Values

We search the world to find you the best values!

The Lowest Prices

We guarantee the lowest price in any catalog.

60% More Products

We've added 60% in the last year!

Immediate Availability

Same day shipping on orders placed before 6pm EST.

Celebrating 30 years of Commitment to the Best Values from Around the World!

Visit us at www.Jameco.com to find more great components for less.

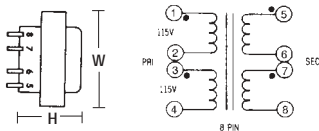
Split-Bobbin Power Transformers

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement

SALE

New Lower Prices



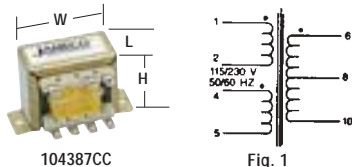
102517CC

Part Number	Mfr. Cross Ref. No.	Triad Cross	Input Voltage	VA Cap	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
221292CC	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	\$4.95	\$4.21	\$3.16
102533CC	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.31	1.62	1.30	0.4	7.29	6.49	5.75
102517CC	XFR1602SB	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.38	1.20	0.3	5.65	5.09	4.50
221284CC	DSW-316	FS16150	115/230	2.5	8V @ .15A	8V @ .30A	16VCT @ .15A	1.38	1.13	1.19	0.3	\$3.99 3.09	2.80	2.55
210921CC	14A-10-ZOB21	—	115/230	10.0	10V @ .05A	10V @ 1.0A	20VCT @ 0.5A	1.88	1.56	1.38	0.5	4.95	4.47	4.07
210948CC	DPC20-60B13	—	115/230	1.2	10V @ .06A	10V @ .12A	20VCT @ .06A	1.63	1.25	1.38	0.2	\$2.95 2.05	1.85	1.69
210956CC	DST2-24-B45	—	115/230	1.1	12V @ .045A	12V @ .09A	24VCT @ .045A	1.13	1.13	0.94	0.2	6.49	5.85	5.25
221305CC	DSW-324	FS24100	115/230	2.5	12V @ .10A	12V @ .20A	24VCT @ .10A	1.38	1.13	1.19	0.3	3.99	3.61	3.25
176090CC	SPT41240-120	FS24250	115/230	6.0	12V @ .25A	12V @ .50A	24VCT @ .25A	1.33	1.63	1.59	0.5	6.95	6.25	5.59
102592CC	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	8.79	7.95	5.49
249412CC	DST-5-16	—	115/230	12.8	8V @ .80A	8V @ 1.6A	16VCT @ .80A	1.57	1.88	1.42	0.6	8.95	8.09	7.25
210930CC	PC34-35-B21	—	115	1.2	17V @ .035A	17V @ .07A	34VCT @ .035A	1.38	1.13	1.19	0.2	\$3.19 2.05	1.85	1.69
148559CC	XFR3603SB NEW	FS36350	115/230	17.0	18V @ .35A	18V @ .70A	36VCT @ .35A	1.59	1.91	1.72	0.7	7.49	6.69	6.05
210964CC	LP40-300-B14	—	115/230	12.0	20V @ .30A	20V @ 0.6A	40VCT @ 0.3A	2.50	2.00	1.07	0.7	5.85	5.30	4.82
209015CC	ST-6-48	—	115	19.2	24V @ .40A	24V @ .80A	48VCT @ .40A	1.88	2.25	1.40	0.8	3.75	3.41	3.10

Quick-Connect Power Transformers

- Quick-connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements
- Terminals: quick connect, solder
- Input voltage: 115/230VAC, 50-60Hz

Quantity SAVE



104387CC

Fig. 1

Part Number	Mfr. Cross Ref. No.	Triad Cross	Fig.	Input Voltage	Output Voltage	VA Cap	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
104387CC	XFR1225Q	FD612	1	115/230VAC	12.6VCT @ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	\$9.29	\$8.65	\$7.05
104408CC	XFR1635Q	FD716	1	115/230VAC	16VCT @ 3.5A	56.0	0.187"	2.00	2.70	2.30	1.8	12.95	11.01	8.26
101864CC	XFR2424Q	FD724	1	115/230VAC	24VCT @ 2.4A	57.6	0.187"	2.40	2.70	2.25	1.7	11.95	10.76	9.52
104416CC	XFR3615Q	FD736	1	115/230VAC	36VCT @ 1.5A	54.0	0.187"	1.90	2.70	2.30	1.8	9.95	8.99	8.09

115VAC and 115/230VAC Power Transformers

Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

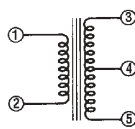
- Primary: 115VAC or 115/230VAC, 50-60Hz



29225CC

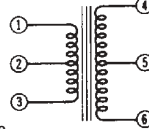
115VAC
50-60Hz

Fig. 1



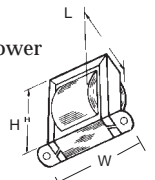
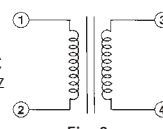
115/230VAC
50-60Hz

Fig. 2



115VAC
50-60Hz

Fig. 3



Quantity SAVE

Part Number	Mfr. Cross Ref. No.	Triad Cross	Primary			VA Cap	Secondary			Lead Type	Fig.	Dimensions			Wt. (lbs.)	Pricing			
			Color Code				Voltage	Color Code				L"	W"	H"		1	10	100	
102162CC	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.56	1.96	1.67	0.8	\$8.49	\$7.64	\$6.76
105523CC	XFR0910	—	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.79	1.96	1.66	0.7	6.95	5.91	4.43
221401CC	P-8391	F216X	Black	—	Black	4.2	12VAC @ 0.35A	White	—	White	Wire	3	1.38	2.38	1.38	0.4	4.45	3.78	2.84
221399CC	P-8657	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	White	Wire	3	2.13	3.25	2.00	1.3	9.15	8.49	7.15
221356CC	P-8658	F219X	Black	—	Black	48.0	12VAC @ 4A	White	—	White	Wire	3	2.25	4.00	2.63	2.3	12.95	11.95	9.95
29225CC	XFR122	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.12	2.33	1.96	1.5	9.95	8.99	7.99
102154CC	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	10.95	9.39	6.99
149770CC	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.2	12.95	11.69	10.49
102120CC	XFR124	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.53	3.08	2.61	2.7	12.95	11.69	10.49
105531CC	XFR1810	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.32	2.05	1.90	1.2	6.95	5.69	4.25
149956CC	XFR1820	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	2	2.26	2.66	2.28	1.8	8.95	7.95	6.95
221381CC	P8396	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	1	1.63	2.8	1.5	0.6	6.95	6.26	5.63
102111CC	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	2	2.22	2.33	1.97	1.5	8.95	8.06	7.25
221372CC	P-8662	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	1	2.38	4.00	2.62	2.3	11.95	10.95	9.19
112512CC	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	3	2.21	3.58	2.25	1.8	9.79	8.85	7.95
221364CC	P-8663†	F193U	—	—	—	96.0	24VCT @ 4A	—	—	—	Lug	1	2.81	3.13	3.81	4.0	18.95	17.85	14.95
221410CC	P-8666†	F226U	—	—	—	288.0	24VCT @ 12A	—	—	—	Lug	1	4.63	3.75	4.63	11.2	34.95	31.96	28.97
99653CC	XFR242	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	2.70	2.30	2.5	10.95	9.86	8.87
102103CC	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	2.67	2.26	2.8	14.95	12.71	9.53
149796CC	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.3	12.95	11.69	8.59

* Center tap

† Solder terminals

Order Anytime 24x7x365

Phone 1-800-831-8242

Online www.Jameco.com

Fax 1-800-237-6948

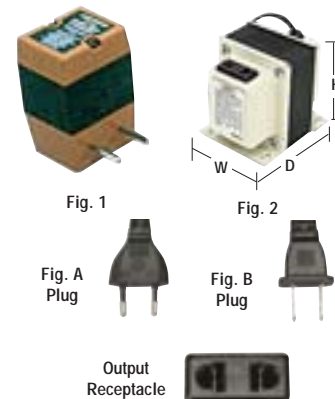
International Step-Up and Step-Down, Auto and Isolation Transformers

- Wide selection to meet your power requirements

Part Number	Mfr. Cross Ref. No.*	Fig.	Type	Primary Voltage	Secondary Voltage	Power (VA)	Dimensions			Weight (lbs.)	Pricing		
							H"	W"	D"		1	10	100
99573CC	AC110V50	1/A	Auto	220VAC	110VAC	50	2.50	1.63	1.33	0.7	\$9.95	\$8.99	\$8.09
85016CC	AC110V300	2/A	Auto	220VAC	110VAC	300	3.50	3.05	3.95	4.8	27.95	24.95	22.49
111851CC	AC110V500	2/A	Auto	220VAC	110VAC	500	3.99	3.60	4.84	8.5	34.95	31.49	28.95
221250CC	GSD-1000	2/A	Auto	220VAC	110VAC	1000	4.63	3.81	6.06	17.0	59.95	50.96	38.22
142906CC	AC110V1500	2/A	Auto	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	79.95	71.95	63.69
99477CC	AC220V50	1/B	Auto	110VAC	220VAC	50	2.50	1.63	1.33	0.7	8.95	8.09	7.25
221233CC	P8638	2/B	Auto	110VAC	220VAC	125	3.13	2.50	3.00	3.0	23.95	20.36	15.27
85008CC	AC220V300	2/B	Auto	110VAC	220VAC	300	3.50	3.05	3.95	4.8	27.95	25.16	22.64
221217CC	P8689	2/B	Auto	110VAC	220VAC	1000	4.63	3.75	6.13	17.0	61.95	57.55	43.85
221313CC	G1SD-500	2/A	Isolation	220VAC	110VAC	500	4.69	3.75	6.00	16.0	78.95	69.95	57.49
222092CC	G1SD-1000	2/A	Isolation	220VAC	110VAC	1000	5.38	4.38	8.13	31.0	149.95	127.46	95.59
221330CC	G1S-500	2/B	Isolation	110VAC	110VAC	500	4.69	3.75	6.00	16.0	78.95	69.95	57.49

* Manufacturer may vary

SALE



International Power Cords

- 3-conductor detachable power cords
- Excellent resistance to jacket abrasion
- Voltage rating: 300 volts
- BSI: British Standard Institution

Cord Configuration Chart – End 2

European Agency Approvals



Cord Configuration Chart – End 1



117911CC (Fig. 1)



174633CC (Fig. 2)

Part Number	Mfr. Cross Reference No.*	Country	Agency Approvals	Cord Plug Fig.		Length	Cord Color	Conductors	Cord Type	Pricing			
				End 1	End 2					1	10	100	250
117911CC	PCVDE-6B	Europe	All in Fig. 3	A	1	6 ft.	Black	3/.75mm ²	H05VVf	\$5.49	\$4.95	\$4.45	\$3.75
174633CC	21071H5182	UK/Ireland	BSI	A	2	8 ft.	Black	3/1.0mm ²	H05VVf	6.49	5.84	5.26	4.73

* Manufacturer may vary

Germany	VDE	
Austria	OVE	
Belgium	CEBEC	
Denmark	DEMKO	
Finland	FIMKO	
France	LCIE	
Netherlands	KEMA	
Norway	NEMKO	
Sweden	SEMKO	
Switzerland	SEV	

Fig. 3

Power Entry Filters and AC Receptacles

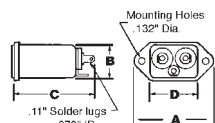


Fig. 1 (Solder Terminals)

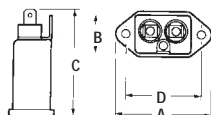


Fig. 2 (Fast-on Terminals)



Fig. 3 (210913CC)

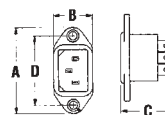


Fig. 4 (Male)

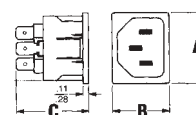


Fig. 5 (Female)



- Frequency: 50/60Hz



Fig. 6 (117444CC)

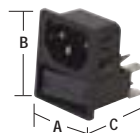


Fig. 7 (184903CC)



Fig. 8 (265527CC)

New Lower Prices
SALE

Quantity SAVE

Part Number	Mfr. Cross Ref. No.	Corcom Cross	Description	Fig.	Current (A)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	Dimension (Inches)				Pricing			
										A	B	C	D	1	10	100	500
150615CC	03AC1	3EF1	Power entry filter, straight (flanged)	1	3	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.58	1.58	\$5.95	\$5.36	\$4.82	\$4.34
42454CC	06AC1	6EF1	Power entry filter, straight (flanged)	1	6	250	solder	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	8.95	8.06	6.44	4.83
165016CC	SUP-J15G-E-2		Power entry filter, straight (flanged)	1	15	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.18	1.58	5.95	5.35	4.85	4.05
40601CC	03AE1*	3EF1F	Power entry filter, straight (flanged)	2	3	250	fast-on	UL/CSA/VDE	.25"	1.97	0.90	2.16	1.58	5.95	5.36	4.28	3.19
63132CC	06AE1	6EF1F	Power entry filter, straight (flanged)	2	6	250	fast-on	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	6.95	6.29	5.65	5.09
217744CC	10AE1	10EF1F	Power entry filter, straight (flanged)	2	10	250	fast-on	UL/CSA/VDE	.25"	1.96	0.89	2.23	1.58	2.65	2.41	2.19	1.99
210913CC	01GEEW3E		Power entry filter, straight (flanged)	3	1	250	wire	UL/CSA/VDE	4.1"	2.05	0.99	1.78	1.58	5.95	5.36	4.28	3.19
147109CC	42R02		AC power inlet (male) snap-in	4	15	250	fast-on	UL/CSA/VDE	.25"	1.22	0.94	1.13	N/A	.26	.23	.21	.19
16651CC	JR101		AC power inlet (male) flanged	4	15	250	fast-on	UL/CSA/VDE	.187"	1.96	0.89	1.07	1.58	.79	.71	.57	.41
147900CC	P0707*		AC power inlet (male) flanged	4	15	250	solder	UL/CSA/VDE	.16"	1.96	0.89	1.04	1.58	.69	.62	.50	.37
218288CC	0708-1-CQ		AC power outlet (female) flanged	5	10	250	fast-on	UL/CSA/VDE	.189"	1.97	1.14	1.27	1.58	.42	.39	.35	.32
117444CC	0717 ¹		AC power inlet (male) fused (snap-in)	6	10	250	fast-on	UL/CSA/VDE	.187"	1.18	1.30	1.21	N/A	1.95	1.79	1.59	1.45
265527CC	WS-044		AC power inlet (male) fused	8	10	250	fast-on	UL/CSA/VDE	.185"	1.73	1.29	0.77	1.42	1.79	1.59	1.39	1.29
184903CC	42R36315210U		AC power inlet (male) w/ switch (snap-in)	7	15	250	fast-on	UL/CSA/VDE	.25"	1.30	1.58	1.42	N/A	1.95	1.69	1.39	1.05

* Manufacturer may vary

¹ Includes spare fuse holder – Fuse type 5mm x 20mm (250V)

30-Day Money-Back Guarantee

If you're not satisfied, we'll take it back!

Details on page 246.

Power Cords

Color Code Legend
New Sale Qty. Save Closeout

- Molded connectors
- Excellent resistance to jacket abrasion
- Temperature:
-20°C to +60°C
- Voltage rating: 300 volts

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875



Line Cord (Fig. 1)



Configuration "8" Laptop Power Cord (Fig. 2)



Configuration "D" Laptop Power Cord (Fig. 3)



Power Cord w/ pigtail (Fig. 4)



184815CC (Fig. 5)



RFI Power Cord (Fig. 6)



Right Angle Computer Power Cord (Fig. 7)



Piggy-Backed Computer Power Cord (Fig. 8)



Power Supply Extension Cord (Fig. 9)



Monitor Power Adapter Cord (Fig. 10)



Hospital Grade Cord (Fig. 11)



Power Strip Saver (Fig. 12)



Power Strip Saver II (Fig. 13)



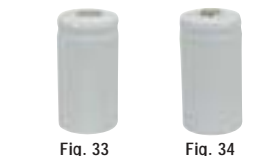
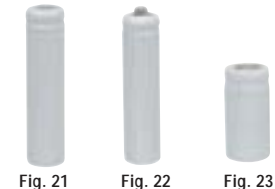
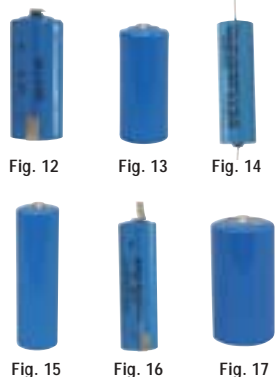
Quantity
SAVE

Part Number	Mfr. Cross Reference No.	Description	Weight (lbs.)	Agency Approvals	Plug Fig.	Length	Color	AWG	Cord Type*	Pricing			
										1	10	100	250
152186CC	17106BG	2-conductor power cord with pigtail	.20	UL/CSA	1	6'	Beige	18/2	SPT-2	\$1.09	\$.98	\$.88	\$.74
124433CC	ST008	2-conductor power cord with pigtail	.16	UL/CSA	1	6'	Black	18/2	SPT-2	1.15	1.03	.83	.69
42041CC	17106	2-conductor power cord with pigtail with strain relief	.25	UL/CSA	1	6'	Black	18/2	SPT-2	1.15	1.03	.93	.78
189587CC	VW-1	2-conductor "8" style power cord for laptops and power supplies	.30	UL/CSA	2	6'	Black	18/2	SPT-2	2.95	2.65	2.39	2.15
200791CC	LL114039	2-conductor "D" style power cord for laptops and power supplies	.30	UL/CSA	3	6'	Black	18/2	SPT-2	2.95	2.69	2.39	1.45
38009CC	17237	3-conductor power cord with pigtail	.31	UL/CSA	4	6'	Gray	18/3	SVT	2.39	2.15	1.94	1.74
173809CC	17405	3-conductor power cord with pigtail	.39	UL/CSA	4	6'	Gray	18/3	SJT	2.35	2.15	1.89	1.59
37997CC	17236	3-conductor power cord with pigtail	.30	UL/CSA	4	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
279662CC	32V86S	3-conductor power cord with pigtail	.32	UL/CSA	4	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
159409CC	17405B	3-conductor power cord with pigtail	.37	UL/CSA	4	6'	Black	18/3	SJT	2.59	2.15	1.95	1.79
38025CC	17238	3-conductor power cord with pigtail	.39	UL/CSA	4	8'	Black	18/3	SVT	3.29	2.75	2.45	2.25
102007CC	17535B	3-conductor power cord with pigtail	.49	UL/CSA	4	10'	Black	18/3	SVT	3.25	2.92	2.63	2.20
196285CC	LL40378	3-conductor power cord with pigtail	.80	UL/CSA	4	10'	Black	16/3	SJT	3.49	3.14	2.51	1.88
166924CC	17516	3-conductor power cord with pigtail	.67	UL/CSA	4	6' 7"	Black	14/3	SJT	3.95	3.56	2.84	2.13
100271CC	17629B	3-conductor power cord with pigtail	.88	UL/CSA	4	9'	Black	14/3	SJT	4.25	3.82	3.06	2.37
184815CC	17629BR	3-conductor right angle power cord with pigtail	.77	UL/CSA	5	7'	Black	14/3	SJT	\$2.95 2.35	2.10	1.89	1.71
103747CC	17248	3-conductor power supply cord	.34	UL/CSA	6	6'	Gray	18/3	SVT	3.89	3.50	2.80	2.49
213874CC	17660BG	3-conductor power supply cord (shielded)	.40	UL/CSA	6	6'	Beige	18/3	SVT	3.59	3.25	2.95	2.65
38041CC	17249	3-conductor power supply cord	.37	UL/CSA	6	6'	Beige	18/3	SVT	3.49	3.15	2.79	2.49
38050CC	17250	3-conductor power supply cord	.36	UL/CSA	6	6'	Black	18/3	SVT	3.75	3.29	2.89	2.17
161761CC	17742	3-conductor power supply cord (shielded)	.40	UL/CSA	6	6'	Black	18/3	SVT	4.49	4.04	3.23	2.42
132118CC	17500	3-conductor power supply cord	.44	UL/CSA	6	6'	Black	18/3	SJT	4.49	4.04	3.23	2.42
117583CC	17502	3-conductor power supply cord	.37	UL/CSA	6	8'	Gray	18/3	SVT	3.49	3.14	2.83	2.54
171096CC	17758	3-conductor power supply cord	.60	UL/CSA	6	8'	Black	18/3	SJT	3.95	3.55	3.19	2.89
229219CC	9350819	3-conductor power supply cord (shielded)	.45	UL/CSA	6	8'	Black	18/3	SJT	4.49	4.04	3.23	2.42
102023CC	17501V	3-conductor power supply cord	.55	UL/CSA	6	10'	Black	18/3	SVT	3.95	3.39	3.09	2.79
192727CC	17501J	3-conductor power supply cord	.64	UL/CSA	6	10'	Black	18/3	SJT	3.95	3.59	3.19	2.69
190625CC	37805	3-conductor power supply cord (shielded)	.75	UL/CSA	6	10'	Beige	18/3	SJT	3.49	3.14	2.51	1.88
163361CC	6952299	3-conductor power supply cord	.33	UL/CSA	6	14'	Black	18/3	SJT	5.39	4.85	4.39	3.95
159361CC	17602	3-conductor power supply cord	.57	UL/CSA	6	6'	Black	16/3	SJT	3.79	3.41	2.73	2.05
142607CC	17502	3-conductor power supply cord (shielded)	.63	UL/CSA	6	6'	Black	16/3	SJT	4.19	3.79	3.39	3.05
249383CC	LL34977	3-conductor power supply cord	.72	UL/CSA	6	9'	Black	16/3	SJT	3.95	3.55	3.19	2.89
125541CC	17504	3-conductor power supply cord	.71	UL/CSA	6	6' 7"	Black	14/3	SJT	4.95	4.46	4.01	3.12
117356CC	8120-6177	3-conductor right angle power supply cord	.41	UL/CSA	7	6'	Gray	18/3	SVT	3.95	3.19	2.39	1.69
38076CC	17250R	3-conductor right angle power supply cord	.54	UL/CSA	7	6'	Black	18/3	SVT	3.49	3.15	2.85	2.55
173251CC	17250RS	3-conductor right angle power supply cord (shielded)	.40	UL/CSA	7	6'	Black	18/3	SVT	3.29	2.99	2.69	2.39
177383CC	17507	3-conductor right angle power supply cord	.66	UL/CSA	7	10'	Black	18/3	SJT	3.95	3.59	3.19	2.69
84937CC	17669-6	3-conductor piggy backed computer power cord	.47	UL/CSA	8	6'	Black	18/3	SJT	6.95	6.25	5.65	4.75
28468CC	PEC	3-conductor computer power supply extension cord	.36	UL/CSA	9	6'	Black	18/3	SVT	3.89	3.51	2.81	2.11
175855CC	PECUL10	3-conductor computer power supply extension cord	.53	UL/CSA	9	10'	Black	18/3	SVT	3.29	2.96	2.66	2.40
177447CC	MPC1	3-conductor monitor power adapter cord	.16	UL/CSA	10	1'	Black	18/3	SVT	2.95	2.49	2.15	1.79
132011CC	17006G	3-conductor power cord w/ hospital grade male (green dot)	.82	UL/CSA	11	10'	Gray	16/3	SJT	8.45	7.61	6.84	6.16
265412CC	EXITOW	3-conductor power cord w/ hospital grade male (green dot)	.70	UL/CSA	11	10'	Gray	18/3	SJT	7.99	7.29	6.55	5.89
115078CC	17006	3-conductor power cord w/ hospital grade male (green dot)	.84	UL/CSA	11	10'	Black	16/3	SJT	8.95	8.05	6.45	4.89
199777CC	PSS-1	3-conductor power cord (power strip saver)	.16	UL/CSA	12	1'	Black	18/3	SVT	1.69	1.55	1.39	1.25
208338CC	SY0527BG	3-conductor power cord (power strip saver)	.16	UL/CSA	12	1'	Beige	18/3	SVT	1.69	1.45	1.09	1.09
208346CC	GPR-2006	3-conductor power cord ("Y" type power strip saver)	.38	UL/CSA	13	2'	Black	18/3	SVT	2.89	2.75	2.59	2.59

*Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

Lithium, Lithium Ion and NiCAD Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.



Lithium & Lithium Ion – Rechargeable

Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
240258CC	CR123A	1	—	3	1300	Photo/Computer	1.36"L x 0.65"Dia.	\$2.65	\$2.45	\$2.35
249471CC	CR123A*	1	—	3	1300	Photo/Computer	1.34"L x 0.65"Dia.	2.59	2.35	2.09
33371CC	TL5101P	2	1/2AA	3.6	850	Barrel w/Leads (Clock/Mem.)	0.93"L x 0.56"Dia.	5.79	5.27	4.45
33398CC	TL5104P	3	AA	3.6	1900	Barrel w/Leads (Clock/Mem.)	1.88"L x 0.56"Dia.	5.95	5.49	5.19
146114CC	TL2100S	4	AA	3.6	1900	Barrel Pres. (Clock/Mem.)	1.91"L x 0.56"Dia.	6.95	6.29	5.65
33427CC	TL5242W	5	—	3.6	1900	Battery Pack w/Plug (PC)	2.38"L x 0.65"W x 0.71"H	7.49	6.75	6.09
33443CC	TL5293W	6	—	6	1900	Battery Pack w/Plug (PC)	2.28"L x 1.49"W x 0.78"H	8.49	7.64	6.88
240186CC	CR1616	—	Coin Cell	3	55	Clock/memory/watch	0.07"Dia. x 0.61"Th.	.69	.63	.60
240207CC	CR2016	—	Coin Cell	3	75	Clock/memory/watch	0.07"Dia. x 0.79"Th.	.38	.36	.34
240215CC	CR2025	—	Coin Cell	3	150	Clock/memory/watch	0.10"Dia. x 0.78"Th.	.32	.30	.28
11789CC	CR2325	7	Coin Cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Th.	1.65	1.47	1.25
252232CC	BR2325/1VG	8	Coin Cell	3	175	Vertical, PC Mount	1.00"Dia. x 0.90"Th.	1.49	1.39	1.35
14162CC	CR2032	—	Coin Cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Th.	1.25	1.12	.94
240223CC	CR2335	—	Coin Cell	3	300	Clock/memory/watch	0.14"Dia. x 0.92"Th.	1.22	1.11	1.00
240231CC	CR2450	—	Coin Cell	3	500	Clock/memory/watch	0.18"Dia. x 0.97"Th.	1.09	.93	.69
126754CC	TL5101S	9	Sub-AA	3.6	850	Macintosh®	0.95"L x 0.56"Dia.	6.95	6.29	5.65
240266CC	ER14250	10	Sub-AA	3.6	1000	Consumer Tip	1.00"L x 0.55"Dia.	3.99	3.89	3.81
263898CC	ER14250	11	Sub-AA	3.6	1000	With axial leads	1.00"L x 0.55"Dia.	4.29	4.11	3.90
263978CC	ER14335	11	Sub-AA	3.6	1450	With axial leads	1.30"L x 0.55"Dia.	4.79	4.62	4.36
263951CC	ER14335	12	Sub-AA	3.6	1450	With solder tabs	1.30"L x 0.55"Dia.	4.59	4.43	4.19
240282CC	ER14335	13	Sub-AA	3.6	1450	Consumer Tip	1.30"L x 0.55"Dia.	4.59	4.45	4.19
263943CC	ER14505	14	AA	3.6	2100	With axial leads	2.00"L x 0.57"Dia.	5.35	4.99	4.70
240303CC	ER14505	15	AA	3.6	2400	Consumer Tip	2.00"L x 0.55"Dia.	5.19	4.85	4.55
263935CC	ER14505	16	AA	3.6	2100	With solder tabs	2.00"L x 0.55"Dia.	4.99	4.75	4.52
240320CC	ER17335	17	Sub-A	3.6	1450	Consumer Tip	1.30"L x 0.67"Dia.	5.25	4.75	4.39
264217CC	ER17335	—	Sub-A	3.6	1450	With axial leads	1.30"L x 0.67"Dia.	5.55	4.99	4.59
263986CC	ER26500	—	C	3.6	8500	With axial leads	2.00"L x 1.02"Dia.	13.19	12.42	11.67
240160CC	ER26500	18	C	3.6	8500	Consumer Tip	2.00"L x 1.02"Dia.	11.95	11.50	11.05
263994CC	ER34615	—	D	3.6	16,500	With axial leads	2.40"L x 1.34"Dia.	16.65	15.68	14.73
240151CC	ER34615	19	D	3.6	16,500	Consumer Tip	2.40"L x 1.34"Dia.	15.05	14.49	13.95
244646CC	UR18650H1	20	—	3.6	2200	Flat Top Lithium Ion (rechargeable)	2.60"L x 0.71"Dia.	17.55	15.79	14.21

* Samsung

NiCAD – Rechargeable

Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244662CC	AAA-240	21	AAA	1.2	240	Flat top	1.70"L x 0.40"Dia.	\$1.89	\$1.85	\$1.80
244540CC	AAA-240-CT	22	AAA	1.2	240	Consumer Tip	1.70"L x 0.40"Dia.	1.89	1.85	1.80
244380CC	2/3AA-320	23	2/3AA	1.2	320	Flat Top	1.10"L x 0.55"Dia.	1.35	1.17	1.09
244443CC	4/5AA-600	24	4/5AA	1.2	600	Flat Top	1.70"L x 0.55"Dia.	1.15	1.03	.93
244486CC	AA-600	25	AA	1.2	600	Flat Top	1.90"L x 0.55"Dia.	1.25	1.22	1.19
244507CC	AA-1000	25	AA	1.2	1000	Flat Top	1.90"L x 0.55"Dia.	2.65	2.43	2.33
261657CC	AA-700-CT	26	AA	1.2	700	Consumer Tip	1.90"L x 0.55"Dia.	1.37	1.25	.96
244515CC	AA-1000-CT	26	AA	1.2	1000	Consumer Tip	1.90"L x 0.55"Dia.	2.65	2.43	2.33
244355CC	1/3A-250	27	1/3A	1.2	250	Flat Top	0.65"L x 0.65"Dia.	1.31	1.18	1.06
244371CC	2/3A-650	28	2/3A	1.2	650	Flat Top	1.10"L x 0.65"Dia.	1.79	1.65	1.60
244603CC	2/3A-100HD	28	2/3A	1.2	1100	Flat Top	1.10"L x 0.65"Dia.	1.99	1.81	1.71
244427CC	4/5A-1100	29	4/5A	1.2	1100	Flat Top	1.70"L x 0.65"Dia.	1.65	1.45	1.39
244574CC	SC-1500	30	Sub-C	1.2	1500	Flat Top	1.70"L x 0.89"Dia.	2.15	1.98	1.87
244953CC	SC-1500HT	30	Sub-C	1.2	1500	Flat Top, High Temp.	1.70"L x 0.89"Dia.	2.39	2.14	2.00
244654CC	SC-1900	30	Sub-C	1.2	1900	Flat Top	1.70"L x 0.89"Dia.	3.69	3.23	3.08
244398CC	2/3SC-650	31	2/3SC	1.2	650	Flat Top	1.00"L x 0.89"Dia.	2.85	2.50	2.36
244401CC	2/3SC-700	31	2/3SC	1.2	700	Flat Top	1.00"L x 0.89"Dia.	3.15	2.73	2.52
244451CC	4/5SC-1250	—	4/5SC	1.2	1250	Flat Top	1.30"L x 0.89"Dia.	2.85	2.56	2.35
244460CC	5/4SC-2300	—	5/4SC	1.2	2300	Flat Top	1.90"L x 0.89"Dia.	6.05	5.57	5.05
244363CC	1/3C-700	—	1/3C	1.2	700	Flat Top	0.87"L x 1.00"Dia.	2.59	2.33	2.10
244339CC	1/2C-800	32	1/2C	1.2	800	Flat Top	0.95"L x 1.00"Dia.	2.89	2.58	2.32
244671CC	C-2000	33	C	1.2	2000	Flat Top	1.90"L x 1.00"Dia.	4.25	3.96	3.92
244523CC	C-2200-CT	34	C	1.2	2200	Consumer Tip	1.90"L x 1.00"Dia.	4.25	3.96	3.92
244531CC	C-2500-CT	34	C	1.2	2500	Consumer Tip	1.90"L x 1.00"Dia.	5.15	4.86	4.65

NiCAD and NiMH Batteries

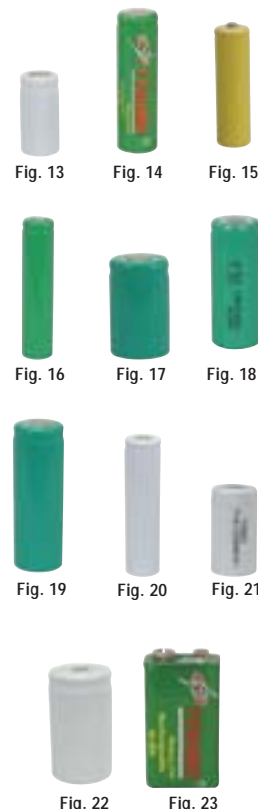


NiCAD – Rechargeable (Continued)

Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244961CC	C-2500HT	1	C	1.2	2500	Flat Top, High Temp	1.90"L x 1.00"Dia.	\$5.25	\$4.74	\$4.60
244689CC	C-2500	1	C	1.2	2500	Flat Top	1.90"L x 1.00"Dia.	5.15	4.86	4.65
244347CC	1/2D-2200	2	1/2 D	1.2	2200	Flat Top	1.40"L x 1.30"Dia.	4.29	4.05	3.85
244566CC	2/3D-2800	—	2/3 D	1.2	2800	Flat Top	1.70"L x 1.30"Dia.	5.25	4.73	4.35
244697CC	D-5000	3	D	1.2	5000	Flat Top	2.40"L x 1.30"Dia.	7.79	7.60	7.45
244558CC	D-5000-CT	4	D	1.2	5000	Consumer Tip	2.40"L x 1.30"Dia.	7.79	7.60	7.45
244419CC	3/2D(F)-8000	5	F	1.2	8000	Flat Top	3.45"L x 1.30"Dia.	20.55	18.89	16.99
126720CC	351FT	6	—	3.6	60	2-Lead (Pin), Barrel	0.72"L x 1.28"Dia.	4.49	4.05	3.65
119116CC	3/V60R	7	—	3.6	60	3-Lead (Pin), Barrel	0.74"L x 0.61"Dia.	3.75	3.39	3.05
101653CC	NA101-1	8	—	3.6	60	2-Lead (Eyelet), Barrel	0.72"L x 0.61"Dia.	5.49	4.95	3.95

NiMH – Rechargeable

Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244937CC	PRIZ-F6(48)-700	—	—	1.2	700	Flat Top-Prismatic	1.86"L x 0.65"W x 0.23"T	\$3.15	\$2.81	\$2.53
244945CC	PRIZ-7/5F6-1100	9	—	1.2	1100	Flat Top-Prismatic	2.63"L x 0.65"W x 0.23"T	4.15	3.69	3.33
244582CC	2/3AAA-300	10	2/3 AAA	1.2	300	Flat Top	1.11"L x 0.40"Dia.	1.49	1.25	.99
244785CC	5/4AAA-750	11	5/4 AAA	1.2	750	Flat Top	2.00"L x 0.40"Dia.	2.29	2.11	2.05
261665CC	AAA-700FT	12	AAA	1.2	700	Flat Top	1.70"L x 0.40"Dia.	2.25	1.99	1.91
244806CC	4/5AA-1200	13	4/5 AA	1.2	1200	Flat Top	1.70"L x 0.55"Dia.	3.25	2.93	2.63
244814CC	AA-1800	14	AA	1.2	1800	Flat Top	1.90"L x 0.55"Dia.	2.35	2.12	1.99
244822CC	AA-1800-CT	15	AA	1.2	1800	Consumer Tip	1.90"L x 0.55"Dia.	2.35	2.12	1.99
244831CC	4/3AA-1900	16	4/3 AA	1.2	1900	Flat Top	2.60"L x 0.55"Dia.	6.89	6.20	5.58
244857CC	2/3A-1100	17	2/3 A	1.2	1100	Flat Top	1.10"L x 0.65"Dia.	3.59	3.07	2.99
244864CC	4/5A-1800	18	4/5 A	1.2	1800	Flat Top	1.70"L x 0.65"Dia.	3.15	2.97	2.78
244970CC	A-2200	19	A	1.2	2200	Flat Top	1.90"L x 0.65"Dia.	3.69	3.49	3.25
244873CC	4/3A-2500	20	4/3 A	1.2	2500	Flat Top	2.60"L x 0.65"Dia.	5.29	5.01	4.68
244890CC	SC-2900-HD	21	Sub-C	1.2	2900	Flat Top, High Discharge	1.70"L x 0.90"Dia.	6.49	6.04	5.89
244902CC	D-9000	22	D	1.2	9000	Flat Top	2.40"L x 1.30"Dia.	21.45	17.54	16.08
244911CC	D-9000-CT	22	D	1.2	9000	Consumer Tip	2.40"L x 1.30"Dia.	21.45	17.54	16.08
244620CC	9V-200	23	9V	9	200	Snaps	1.94"L x 0.65"Dia.	7.79	6.92	6.22



Long-Lasting Rechargeable NiMH Batteries & Chargers

Why buy & throw away hundreds of batteries? Now you can reuse longer-lasting, money saving NiMH rechargeable batteries instead! They feature twice the power of NiCAD batteries, so they're ideal for power-hungry devices like digital cameras and camcorders. The chargers below are specifically designed for NiMH batteries.

NiMH Batteries

Part No.	Description	1	10	25	100
231095CC	2x AAA, 600mAh	\$6.95	\$6.25	\$5.65	\$5.05
231087CC	4x AA, 1600mAh	13.95	12.55	11.29	10.19
231116CC	2x C, 3000mAh	11.49	10.34	9.31	8.38
231124CC	2x D, 7000mAh	19.59	17.65	15.89	14.29
231108CC	1x "9V", 150mAh	8.39	7.95	7.59	7.19

NiMH Chargers

231141CC: Compact battery charger with 4 AA batteries

231132CC: Universal battery charger for AAA, AA, C, D and "9V" cells (batteries not included)

- Selector switch for NiCAD or NiMH type batteries
- Recharge batteries as singles or in groups
- Automatic charging current selection for different size of batteries
- Fast charging in the specified period with automatic switch for trickle charge
- LED lamp to indicate proper charging
- Built-in IC timer control

Part No.	Description	1	5	10
231141CC	Compact AA charger	\$49.95	\$17.09	\$15.55
231132CC	Universal charger	\$49.95	17.09	15.55

NiMH & NiCAD Battery Charger

Charge your AA or AAA NiMH and AA NiCAD batteries with this 8-hour battery charger. Simply plug into a wall outlet. Red LED indicates charging and green LED indicates ready to use.

- Charging bay allows 4AA or 4AAA batteries to be charged at the same time (only AA NiCAD)
- Output: 4AA 1.35V @ 250mA or 4AAA 1.35V @ 95mA
- Size: 2.8" x 2.4" x 4.6" • Weight: 1.0 lb.

Part No.	Description	1	10
217533CC	Plug-in charger	\$4.29	\$3.09

NiCAD & NiMH Rapid Charger

Why buy & throw away hundreds of batteries? Now you can reuse and recharge your NiCAD and NiMH batteries and save money. Charger is portable so you can recharge your batteries in your car, office or home, in a fraction of the time it takes standard chargers. Includes 4 AA NiMH batteries, wall adapter, and cigarette adapter. Also includes discharge function.

Part No.	Description	1	10
244638CC	AA or AAA charger	\$21.15	\$19.95

Rechargeable Battery Packs



Jameco ReliaPro™ rechargeable battery packs are available in many configurations and capacities. Each series-connected pack is available with 6" lead wires or 0.125"W x 0.4"L solder tab hook-ups. Available in economical NiCAD and powerful NiMH compositions.

• AA single cell: 1.92"L x 0.56"Dia. (48.8mm x 14.2mm)

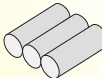
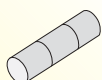
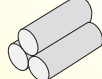
• SC single cell: 1.65"L x 0.86"Dia. (41.9mm x 21.8mm)

• D single cell: 2.36"L x 1.26"Dia. (59.9mm x 32.0mm)

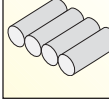
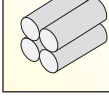
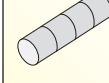
2.4 Volts

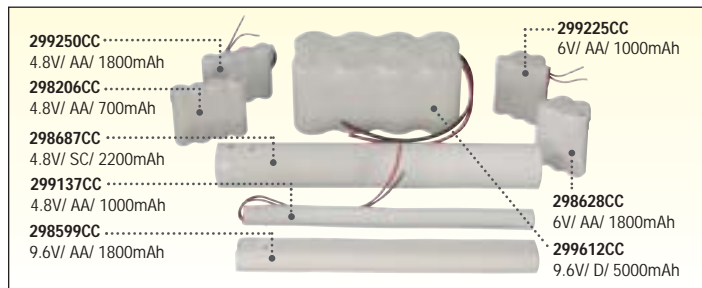
2.4 Volts				Solder Tabs			Lead Wires				
Cell Size	Type	mAh	Jameco Part No.	Pricing			Jameco Part No.	Pricing			
				1	10	25		1	10	25	
	AA	NiCAD	700	298097CC	\$4.35	\$4.26	\$4.14	298935CC	\$5.35	\$5.22	\$5.09
	AA	NiCAD	1000	298337CC	5.35	4.87	4.33	299081CC	6.55	6.32	6.05
	AA	NiMH	1800	298484CC	9.39	8.54	7.59	299233CC	11.29	10.77	10.28
	SC	NiCAD	2200	298636CC	10.35	9.82	9.33	299381CC	11.29	10.77	10.28
	D	NiCAD	5000	298783CC	24.75	22.25	19.78	299532CC	24.75	22.25	19.78
	AA	NiCAD	700	298214CC	4.35	3.95	3.52	298960CC	5.29	5.22	5.09
	AA	NiCAD	1000	298361CC	5.39	4.90	4.35	299111CC	6.55	6.34	6.07
	AA	NiMH	1800	298513CC	9.49	8.55	7.59	299268CC	11.29	10.77	10.28
	SC	NiCAD	2200	298661CC	10.35	9.82	9.33	299410CC	11.29	10.77	10.28
	D	NiCAD	5000	298812CC	24.69	22.24	19.77	299567CC	24.69	22.24	19.77

3.6 Volts

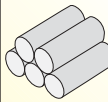
3.6 Volts				Solder Tabs			Lead Wires				
	Cell Size	Type	mAh	Jameco Part No.	Pricing			Jameco Part No.	Pricing		
					1	10	25		1	10	25
	AA	NiCAD	700	298193CC	\$6.19	\$5.92	\$5.49	298943CC	\$7.15	\$6.87	\$6.57
	AA	NiCAD	1000	298345CC	8.05	7.31	6.50	299090CC	9.35	8.61	7.84
	AA	NiMH	1800	298492CC	11.89	11.30	10.47	299276CC	12.85	12.25	11.69
	SC	NiCAD	2200	298644CC	12.25	11.00	9.90	299399CC	13.19	11.95	10.85
	D	NiCAD	5000	298791CC	35.25	31.70	28.53	299541CC	36.19	32.65	29.48
	AA	NiCAD	700	298222CC	6.19	5.92	5.26	298978CC	8.75	8.07	7.35
	AA	NiCAD	1000	298370CC	8.09	7.34	6.53	299129CC	9.35	8.57	7.81
	AA	NiMH	1800	298521CC	10.35	9.82	9.33	299241CC	12.85	11.78	10.48
	SC	NiCAD	2200	298679CC	12.25	11.02	9.92	299428CC	13.19	11.97	10.87
	D	NiCAD	5000	298821CC	35.25	31.70	28.53	299575CC	36.19	32.65	29.48
	AA	NiCAD	700	298302CC	6.49	5.90	5.24	299057CC	6.49	5.90	5.24
	AA	NiCAD	1000	298450CC	8.05	7.32	6.50	299209CC	8.05	7.31	6.50
	AA	NiMH	1800	298601CC	13.09	11.78	10.48	299356CC	15.99	14.48	13.13
	SC	NiCAD	2200	298759CC	15.09	13.53	12.18	299508CC	16.05	14.48	13.13
	D	NiCAD	5000	298901CC	41.49	37.34	33.61	299655CC	37.09	33.37	29.66

4.8 Volts

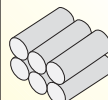
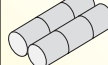
4.8 Volts				Solder Tabs			Lead Wires				
Cell Size	Type	mAh	Jameco Part No.	Pricing			Jameco Part No.	Pricing			
				1	10	25		1	10	25	
	AA	NiCAD	700	298206CC	\$7.79	\$7.08	\$6.37	298951CC	\$8.75	\$8.03	\$7.32
	AA	NiCAD	1000	298353CC	10.69	9.62	8.66	299102CC	11.65	10.57	9.61
	AA	NiMH	1800	298505CC	15.09	14.33	13.35	299250CC	16.05	15.28	14.56
	SC	NiCAD	2200	298652CC	15.45	13.90	12.51	299401CC	16.39	14.85	13.46
D	NiCAD	5000	298804CC	44.49	40.05	36.04	299559CC	45.45	41.00	36.99	
	AA	NiCAD	700	298249CC	7.79	7.06	6.36	298994CC	8.69	8.01	7.31
	AA	NiCAD	1000	298396CC	10.69	9.60	8.65	299145CC	11.65	10.55	9.60
	AA	NiMH	1800	298548CC	15.09	14.32	13.30	299292CC	16.05	15.28	14.56
	SC	NiCAD	2200	298695CC	15.45	13.64	12.51	299444CC	16.39	14.85	13.46
D	NiCAD	5000	298847CC	44.35	39.89	35.90	299591CC	45.29	40.84	36.85	
	AA	NiCAD	700	298231CC	7.85	7.12	6.40	298986CC	8.75	8.07	7.35
	AA	NiCAD	1000	298388CC	10.69	9.62	8.66	299137CC	11.65	10.57	9.61
	AA	NiMH	1800	298530CC	11.89	11.30	10.74	299284CC	16.05	15.28	14.56
	SC	NiCAD	2200	298687CC	15.45	13.91	12.52	299436CC	16.39	14.86	13.47
D	NiCAD	5000	298839CC	44.49	40.02	36.02	299583CC	45.45	40.97	36.97	



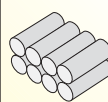
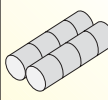
6.0 Volts

6.0 Volts			Solder Tabs				Lead Wires				
Cell Size	Type	mAh	Jameco Part No.	Pricing			Jameco Part No.	Pricing			
				1	10	25		1	10	25	
	AA	NiCAD	700	298329CC	\$9.25	\$8.00	\$7.60	299073CC	\$10.29	\$8.95	\$8.55
	AA	NiCAD	1000	298476CC	11.25	10.13	9.11	299225CC	13.25	11.08	10.06
	AA	NiMH	1800	298628CC	18.85	16.07	15.27	299372CC	19.75	17.02	16.22
	SC	NiCAD	2200	298775CC	18.79	15.99	14.39	299524CC	19.75	16.94	15.34
	D	NiCAD	5000	298927CC	52.85	44.92	42.67	299680CC	53.79	45.87	43.57

7.2 Volts

7.2 Volts				Solder Tabs			Lead Wires				
	Cell Size	Type	mAh	Jameco Part No.	Pricing			Jameco Part No.	Pricing		
					1	10	25		1	10	25
	AA	NiCAD	700	298257CC	\$11.75	\$10.58	\$9.53	299006CC	\$12.75	\$11.53	\$10.59
	AA	NiCAD	1000	298409CC	15.99	14.40	12.96	299153CC	16.95	15.35	13.91
	AA	NiMH	1800	298556CC	20.29	18.25	16.43	299305CC	21.25	19.20	17.38
	SC	NiCAD	2200	298708CC	23.15	20.81	18.73	299452CC	24.09	21.76	19.68
	D	NiCAD	5000	298855CC	66.49	59.83	59.09	299604CC	67.45	60.78	59.09
	AA	NiCAD	700	298281CC	11.79	10.59	9.54	299031CC	12.75	11.54	10.49
	AA	NiCAD	1000	298433CC	16.05	14.41	12.97	299188CC	16.95	15.36	13.92
	AA	NiMH	1800	298581CC	20.29	18.25	16.43	299330CC	21.25	19.20	17.38
	SC	NiCAD	2200	298732CC	23.15	20.82	18.74	299487CC	24.09	21.77	19.69
	D	NiCAD	5000	298880CC	66.49	59.83	59.29	299639CC	67.45	60.78	59.29

9.6 Volts

9.6 Volts				Solder Tabs			Lead Wires				
	Cell Size	Type	mAh	Jameco Part No.	Pricing			Jameco Part No.	Pricing		
					1	10	25		1	10	25
	AA	NiCAD	700	298265CC	\$15.69	\$14.12	\$12.70	299014CC	\$16.65	\$15.07	\$13.65
	AA	NiCAD	1000	298417CC	21.35	19.20	17.27	299161CC	22.29	20.15	18.23
	AA	NiMH	1800	298564CC	26.35	23.70	21.34	299313CC	27.29	24.65	22.29
	SC	NiCAD	2200	298716CC	30.85	27.75	24.98	299461CC	31.79	28.70	25.93
	D	NiCAD	5000	298863CC	88.65	79.76	78.78	299612CC	89.59	80.71	78.71
	AA	NiCAD	700	298290CC	12.25	11.02	9.92	299049CC	12.25	11.02	9.92
	AA	NiCAD	1000	298441CC	15.19	13.66	12.29	299196CC	16.15	14.61	13.23
	AA	NiMH	1800	298599CC	23.65	21.27	19.14	299348CC	24.59	22.22	20.09
	SC	NiCAD	2200	298741CC	24.49	22.19	19.83	299495CC	25.45	22.98	20.70
	D	NiCAD	5000	298898CC	63.35	57.01	54.16	299647CC	64.29	57.96	55.06

Lead Acid Batteries

- Sealed
- UL approved
- Rechargeable
- Two-year warranty



Part Number	Product Number	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
				Panasonic	YUASA	Eagle Picher	Tempest				1	10
264014CC	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick Connect 0.187"	2.8 x 1.9 x 4.0	1.9	\$8.99	\$7.89
264022CC	TY-6-10	6	10.0	LCR6V10P	NP10-6	CFM6V10	TR10-6	Quick Connect 0.187"	5.9 x 2.0 x 3.9	4.6	14.45	12.97
317024CC	LA-TY-6-12 NEW	6	12.0	—	—	—	—	Quick Connect 0.187"	5.9 x 1.9 x 3.7	4.6	14.69	12.75
318941CC	LA-TY-12-.8 NEW	12	0.8	—	—	—	—	9" wire w/o connector	3.8 x 1.0 x 2.4	0.8	16.39	15.19
318844CC	LA-TY-12-1.2 NEW	12	1.2	—	—	—	—	Quick Connect 0.187"	3.8 x 1.7 x 2.1	1.3	13.99	12.69
264031CC	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick Connect 0.187"	7.0 x 1.3 x 2.4	2.1	15.39	14.59
318924CC	LA-TY-12-3.2 NEW	12	3.2	—	—	—	—	Quick Connect 0.187"	5.3 x 2.7 x 2.4	3.1	16.19	14.69
264049CC	TY-12-4.5	12	4.5	LCR12V4PF	NP412	CF12V4	TR4-12	Quick Connect 0.187"	3.5 x 2.8 x 4.0	3.8	15.79	14.55
264057CC	TY-12-7	12	7.0	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick Connect 0.187"	5.9 x 2.6 x 3.7	5.6	16.95	15.15
264065CC	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick Connect 0.187"	5.9 x 3.9 x 3.9	9.0	30.65	28.25
264073CC	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick Connect 0.472"	7.1 x 3.0 x 6.6	13.3	32.85	28.15
318852CC	LA-TY-12-35 NEW	12	35.0	—	—	—	—	Quick Connect 0.644"	7.6 x 5.1 x 6.3	27.6	47.79	41.69



Lead Acid Batteries

- Color-coded terminals
- Sealed
- Rechargeable

- UL approved
- Two-year warranty



New Lower Prices
SALE
Quantity
SAVE

Tempest is an ISO-9001 Certified Company

Part Number	Product Number	Nominal Voltage	Amp-Hrs.	Charging Voltage		Cross Reference			Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
				Standby	Cyclic	Panasonic	YUASA	Eagle Picher				1	10
218384CC	TR1.3-12	12	1.3	13.6-13.8	14.5-14.9	LC-R121R3PU	NP1.2-12	CF12V1.3	Quick connect 0.185"	3.8 x 1.7 x 2.0	1.3	\$16.49 \$13.85	\$12.69
218421CC	TR22-12	12	22	13.6-13.8	14.5-14.9	—	—	—	Terminal pad 0.472"Dia.	7.2 x 3.0 x 6.6	15.0	39.95	35.95
218448CC	TRU1-34	12	34	13.6-13.8	14.5-14.9	—	—	—	Quick connect 0.649"	7.8 x 5.2 x 6.2	25.6	57.95	52.95
218456CC	TR55-14	12	55	13.6-13.8	14.5-14.9	—	—	—	Quick connect 0.629"	9.0 x 5.4 x 8.2	39.7	83.25	75.69
218464CC	TR70-12B	12	70	13.6-13.8	14.5-14.9	—	—	—	Quick connect 0.590"	10.3 x 6.7 x 8.2	55.1	148.95	111.69

Zinc Chloride, Silver Oxide & Alkaline Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

Quantity
SAVE



Zinc Chloride

Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
151087CC	AA	1	AA	1.5	700	Barrel Pressure	1.9"L x 0.55"Dia.	\$0.22	\$0.20	\$0.18
151095CC	GF6F22	3	9V	9	300	—	1.7"L x 1.0"W x 0.67"Dia.	1.25	.99	.79

Silver Oxide

Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
140783CC	357	2	Button	1.55	1600	—	0.454"Dia.	\$1.75	\$1.49	\$1.25

Alkaline

Part Number	Mfr. Cross Ref.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
249181CC	LR031.5V	4	AAA	1.5	—	3-pack	1.7"L x 0.40"Dia.	\$1.49	\$1.27	\$0.95
249455CC	—	5	AA	1.5	—	3-pack	1.97"L x 0.55"Dia.	1.29	1.23	1.16
150965CC	840	6	—	4.5	600	Batt. Pack w/Con. (Apple®)	1.14"L x 0.73"W x 0.96"H	9.95	8.96	8.06
198791CC	MN1604	3	9V	9	500	—	1.7"L x 1.0"W x 0.67"H	2.85	2.55	2.29

Eveready® Energizer® Alkaline Batteries



Energizer® and the Energizer Bunny® are registered trademarks of the Eveready Battery Company, Inc.

- Single-use Energizer® alkaline batteries for heavy drain and frequent use applications
- Prepackaged: order in increments of 4

SALE

Part No.	Size	4	8	12
198707CC	AA	\$0.64	\$0.63	\$0.62
198715CC	AAA	.67	.65	.62
Part No.	Size	1	4	
198731CC	9-volt	\$1.89	\$1.85	
215845CC	D	1.12	1.09	

Don't worry about backorders. Over 99% of our products are in stock!

We'll Send It Today!

Just place your order by 6PM EST for same business day shipment.



Battery Holders

Quantity
SAVE

SALE

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, or attached to battery holders.

Part No.	Mfr. Cross Ref.	Fig.	No. of Cells	Connector	Sides	Features	1	10	100	500
216071CC	BH-311-2A	1	1-AA	Wires	Single		\$.69	\$.62	\$.56	\$.46
216080CC	BH-321-2A	3	2-AA	Wires	Single		.69	.59	.50	.37
216098CC	BH-321-4A	3	2-AA	Wires	Single	With mounting tabs	.59	.53	.42	.32
216101CC	SBH-321-2A	5	2-AA	Wires	Single	With cover, no switch	.59	.53	.42	.32
216119CC	SBH-321-1AS	5	2-AA	Wires	Single	With cover and switch	.79	.71	.64	.54
216127CC	BH-322-1B	4	2-AA	Snaps	Dual		.59	.53	.42	.32
216135CC	BH-331-A	6	3-AA	Snaps	Single		.89	.79	.72	.65
216143CC	SBH-331-AS	7	3-AA	Wires	Single	With cover and switch	.99	.79	.71	.53
216151CC	BH-341-2A	8	4-AA	Wires	Single		.99	.89	.84	.79
105857CC	*	12	4-AA	Wires	Single	Wires with connector	.89	.75	.64	.48
216160CC	BH-342-A	9	4-AA	Wires	Dual		.59	.53	.42	.32
216178CC	BH-343-1A	10	4-AA	Wires	Dual		.65	.55	.47	.35
216186CC	SBH-341-1AS	13	4-AA	Wires	Single	With cover and switch	1.09	.89	.85	.75
216194CC	BH-341-2B	8	4-AA	Snaps	Single		.65	.59	.47	.35
216207CC	BH-343-1B	10	4-AA	Snaps	Dual		.89	.80	.64	.48
216215CC	BH-363-A	15	6-AA	Wires	Dual		.85	.76	.69	.58
216223CC	BH-364-A	14	6-AA	Wires	Single		.95	.85	.69	.51
216231CC	BH-363-B	15	6-AA	Snaps	Dual		.99	.75	.69	.65
216240CC	BH-383-A	17	8-AA	Wires	Dual		1.09	.98	.78	.59
216258CC	BH-382-B	16	8-AA	Snaps	Dual		1.19	.99	.89	.85
216266CC	BH-383-B	17	8-AA	Snaps	Dual		1.19	.99	.86	.64
216274CC	BH-411-1A	1	1-AAA	Wires	Single		.39	.35	.28	.21
216282CC	BH-421-1A	3	2-AAA	Wires	Single		.69	.59	.54	.49
216291CC	SBH-421-AS	5	2-AAA	Wires	Single	With cover and switch	.69	.62	.50	.37
216303CC	BH-431-1A	6	3-AAA	Wires	Single		.79	.71	.57	.43
216311CC	SBH-431-1AS	7	3-AAA	Wires	Single	With cover and switch	.79	.69	.59	.49
216320CC	BH-441-1A	8	4-AAA	Wires	Single		.89	.80	.64	.48
216338CC	SBH-441-AS	13	4-AAA	Wires	Single	With cover and switch	1.25	1.12	.90	.68
216346CC	BH-211-A	1	1-C	Wires	Single		.55	.50	.40	.30
216354CC	BH-221-A	3	2-C	Wires	Single		1.09	.98	.78	.59
216362CC	BH-242-1A	11	4-C	Wires	Single		1.39	1.29	1.09	.99
216371CC	BH-111-1A	1	1-D	Wires	Single		.69	.59	.54	.49
216389CC	BH-121-1A	3	2-D	Wires	Single		.89	.75	.64	.48
216397CC	BH-121-1B	3	2-D	Snaps	Single		.64	.58	.53	.48
216400CC	BH-142-A	11	4-D	Wires	Single		1.19	.95	.85	.64
216418CC	BH-143-1A	8	4-D	Wires	Single		1.15	.89	.81	.74
216426CC	BH-9V-A	2	1-9V	Wires	Single		.79	.69	.64	.59
216434CC	BH-511-1A	1	1-N	Wires	Single		.59	.53	.42	.32
38535CC	2S2032	18	1-CR2032	PC Mount	Coin Cell		.59	.53	.44	.31
38543CC	2S2325	18	1-CR2354 or 2-CR2325	PC Mount	Coin Cell		.99	.89	.80	.61
Other Manufacturers — Limited Great Deals										
237315CC	1029	19	1-2/3AA	PC Mount	Single		\$.75	\$.69	\$.59	\$.55
236996CC	103	18	1-CR2032	PC Mount	Coin Cell		.95	.86	.68	.51

* Battery holder used in many personal computers

Compact Battery Tester

Simply lift the swivel arm of this battery tester and place your battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, D, 9V, and button cell batteries.



Part No.	Description	1	5
239556CC	Compact battery tester	\$4.99	\$4.49

"9-Volt" Battery Snaps and Clip

- Use with standard "9 volt" batteries
- Fully insulated; contacts are nickel-plated brass
- Leads are color-coded, stripped and pre-tinned
- Snap: male outer dia. = 0.225" • Female inner dia.: 0.215"



Fig. 1



Fig. 2

* 10 piece minimum

Part No.	Fig.	Description	Dimensions (in.)			Pricing			
			L	W	H	1	10	100	1000
11279CC	1	3", 26 AWG, 6 prong battery snap	1.0	.50	—	\$.25	\$.22	\$.19	\$.16
105793CC	2	Battery holder clip	.63	.71	1.2	.28	.23	.16	.14
109153CC	3	6", 26 AWG, 6 prong battery snap	1.0	.50	—	*	.17	.15	.135
101469CC	3	10", 26 AWG, 6 prong battery snap	1.0	.50	—	.29	.25	.21	.14
216451CC	4	6", 26 AWG, 6 prong battery snap	1.0	.50	—	.34	.30	.20	.18



Fig. 3



Fig. 4

30-Day Money-Back Guarantee

If you're not satisfied, we'll take it back! Details on page 246.



Serial LCD Displays

Scott Edwards Electronics, Inc.

- For detailed specification sheets, please visit www.Jameco.com.
- One year warranty

Scott Edwards ILM-216L
• 16 x 2 characters
• 2.8" x 1.0" display



P/N 150990CC **\$48.95**

Matrix Orbital LK162-12
• 16 x 2 characters
• 2.5" x 0.7" display



P/N 174166CC **\$51.99**

New Lower Prices

Scott Edwards BPI-216N
• 16 x 2 characters
• 2.8" x 1.0" display



P/N 133129CC **\$59.95**

Matrix Orbital VK202-25
• 20 x 2 characters w/ keypad interface
• 2.8" x 0.5" display



P/N 281359CC **\$88.99**

Matrix Orbital LCD2041
• 20 x 4 characters
• 3.0" x 1.0" display



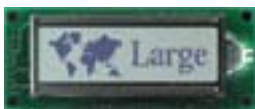
P/N 150957CC **\$57.99**

Matrix Orbital LK204-25
• 20 x 4 characters
w/ keypad interface
• 3.0" x 1.0" display



P/N 157323CC **\$77.99**

Matrix Orbital GLK12232-25-SM
• 20 x 4 characters
with graphics
• 2.4" x 0.7" display



P/N 281391CC **\$68.99**

Matrix Orbital GLK12232-25-WBL
• 20 x 4 characters
with graphics
• 3.3" x 1.4" display



P/N 281404CC **\$74.99**

Matrix Orbital VFD2041
• 20 x 4 characters
• 3.0" x 1.0" display



P/N 303554CC **\$105.99**

Scott Edwards SGX-120L
• 20 x 4 characters
with graphics
• 2.6" x 1.1" display



P/N 158166CC **\$119.95**

Matrix Orbital VK204-25
• 20 x 4 characters
• 2.8" x 0.8" display



P/N 281375CC **\$114.49**

Scott Edwards BPP-440L
• 40 x 4 characters
• 6.7" x 1.7" display



P/N 136485CC **\$149.95**

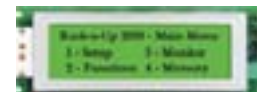
SALE

Matrix Orbital GLC24064
• 40 x 8 characters with graphics
• 5.2" x 1.5" display



P/N 174182CC **\$165.99**

Matrix Orbital GLK24064-25
• 40 x 8 characters with graphics
• 5.0" x 1.3" display



P/N 281412CC **\$192.99**

Part No.	Manufacturer	Product No.	Characters x Lines	Serial Input (bps)	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
										1	10	25
150990CC	Scott Edwards	ILM-216L	16 x 2	1200 - 9600	4.8V-5.5V@ 5mA	Y	1,2,5	3.2x2.0x0.5	2.8 x 1.0	\$48.95	\$44.09	\$39.65
174166CC	Matrix Orbital	LK162-12	16 x 2	1200 - 19,200	5.0V@9mA	Y	1,3,4,6	3.2x1.5x0.8	2.5 x 0.7	\$51.99	\$49.99	\$47.99
133129CC	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8V - 5.5V @ 3mA	N	1, 2,11	3.1x1.4x0.7	2.8 x 1.0	\$59.95	\$53.99	\$48.99
281359CC	Matrix Orbital	VK202-25	20 x 2 w/ keypad interface	1200 - 19,200	5.0V@130mA	Y	1,7,10	4.6x1.5x0.9	2.8 x 0.5	\$88.99	\$87.97	\$84.47
150957CC	Matrix Orbital	LCD2041	20 x 4	1200 - 19,200	5.0V@10mA	Y	1,3,4,6	3.9x2.4x0.7	3.0 x 1.0	\$57.99	\$55.99	\$54.99
157323CC	Matrix Orbital	LK204-25	20 x 4 w/ keypad interface	1200 - 19,200	5.0V@16mA	Y	1,3,4,6	3.7x2.4x1.1	3.0 x 1.0	\$77.99	\$75.99	\$73.99
281391CC	Matrix Orbital	GLK12232-25-SM	20 x 4 w/ graphics	9600 - 115,000	5.0V@250mA	Y	1,8	3.4x1.4x 0.5	2.4 x 0.7	\$68.99	\$67.99	\$65.49
281404CC	Matrix Orbital	GLK12232-25-WBL	20 x 4 w/ graphics	9600 - 115,000	5.0V@20mA	Y	1,8	3.9x2.4x0.4	3.3 x 1.4	\$74.99	\$73.99	\$71.19
303554CC	Matrix Orbital	VFD2041	20 x 4	1200 - 19,200	5.0V@20mA	Y	1,4,10	3.9x2.4x1.1	3.0 x 1.0	\$105.99	\$102.99	\$99.99
158166CC	Scott Edwards	SGX-120L	20 x 4 w/ graphics	2400 or 9600	9V bat. or 5.0V@45mA	Y	1,2,5	3.1x1.9x0.8	2.6 x 1.1	\$119.95	\$107.99	\$107.99
281375CC	Matrix Orbital	VK204-25	20 x 4	1200 - 19,200	5.0V@220mA	Y	1,4,10	3.8x2.4x1.0	2.8 x 0.8	\$114.49	\$113.50	\$108.73
136485CC	Scott Edwards	BPP-440L	40 x 4	1200 - 9600	5.0V@10mA	Y	1, 2,11	7.5x2.2x0.9	6.7 x 1.7	\$469.95	\$149.95	\$142.45
174182CC	Matrix Orbital	GLC24064	40 x 8 w/ graphics	1200 - 19,200	5.0V@31mA	Y	1,3,6	7.1x2.6x0.7	5.2 x 1.5	\$165.99	\$161.69	\$157.49
281412CC	Matrix Orbital	GLK24064-25	40 x 8 w/ graphics	9600 - 115,000	5.0V@20mA	Y	1,9	7.1x2.6x1.1	5.0 x 1.3	\$192.99	\$192.00	\$183.30

*1. For power supply, recommend P/N 164101CC, pg 161.

2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included.)

3. Manual and software included

4. Connect 16 modules using the same two wire interface

5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature.

7. Connect 127 modules on the same 2-wire interface

8. 122 x 32 pixel graphics display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a 25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs

11. LCD Serial Backpack* accepts RS232, CMOS or TTL signal.



Serial LCD Interface Module

- For Parallel LCD Displays with Hitachi 44780 Chipset
- Supports 1 x 8 thru 4 x 20 LCD display formats
- Provides word wrap, control character processing for display blanking cursor blanking, up-down-left-right cursor controls
- Compatible with P/N 171715CC, pg 175



New Lower Prices

VL 0.5" High 4-Digit Field Effect LCD Display

- Compatible with socket P/N 78641CC (2), pg 99
- Pin spacing: 0.1" centers
- 40-pin package (no connector required)
- Digital multimeters, thermometers, pressure gauges, timers, frequency counters, and clocks (12 or 24 hour format)



8.8.8.8

Part No.	Product No.	Size (L x W)	1	10	25	Part No.	Product No.	Size (W x H x D)	1	10	25
157981CC	1616B-05A-100	1.5" x 1.0"	\$19.19	\$17.91	\$16.28	17110CC	402-DP-RC-S	2.0" x 1.2" x 0.1"	\$14.95	\$13.49	\$12.15

Parallel LCD Displays

• For detailed specification sheets, please visit www.Jameco.com.

• 90-day Jameco warranty

Ampire AC-162A

- 16 x 2 characters
- 2.5" x 0.7" display

SALE



P/N 171715CC **\$13.99**

PicVue PVC160204A

- 16 x 2 characters
- 2.6" x 0.7" display



P/N 277384CC **\$13.99**

PicVue PVC160205

- 16 x 2 characters
- 3.9" x 0.9" display

SALE



P/N 277392CC **\$19.95**

Optrex DM16433

- 16 x 4 characters
- 2.4" x 1.0" display



P/N 210761CC **\$22.95**

Samsung 9936

- 20 x 1 characters
- 6.5" x 1.3" display

Quantity SAVE



P/N 206615CC **\$19.99**

Ampire AC-202A

- 20 x 2 characters
- 3.3" x 0.7" display



P/N 171723CC **\$24.95**

PicVue PVC200401

- 20 x 4 characters
- 3.0" x 1.0" display



P/N 277376CC **\$23.29**

Ocular OM4021-WGS-01

- 40 x 2 characters
- 6.0" x 0.6" display

Quantity SAVE



277325CC **\$24.95**

Optrex 20-20191-2

- 40 x 2 characters
- 5.8" x 0.5" display

Quantity SAVE



P/N 215159CC **\$29.99**

Emerging Display EW40420GLY

- 40 x 4 characters
- 5.9" x 1.2" display



P/N 277253CC **\$42.39**

PicVue PG121202A

- 128 x 128 pixels
- 2.7" x 2.7" display



P/N 277333CC **\$45.29**

PicVue PVG240602A

- 240 x 64 pixels
- 5.2" x 1.5" display



P/N 277350CC **\$61.95**

Part No.	Manufacturer	Product No.	Characters x Lines	Character Font	Input Data	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
											1	10	25
171715CC	Ampire	AC-162A	16 x 2	5 x 8	8-bit	5.5V@1.5mA	Y	3, 5	3.4x1.2x0.5	2.5 x 0.7	\$19.95 \$13.99	\$13.35	\$12.65
277384CC	PicVue	PVC160204A	16 x 2	5 x 7	8-bit	5VDC@1.6mA	Y	—	3.3x1.4x0.5	2.6 x 0.7	13.99	11.99	9.99
277392CC	PicVue	PVC160205	16 x 2	5 x 8	4-bit or 8-bit	5.2V@1.2mA	Y	—	4.8x1.7x0.5	3.9 x 0.9	19.95	18.95	17.99
210761CC	Optrex	DM16433	16 x 4	5 x 8	4-bit or 8-bit	6.5V@2.2mA	N	1, 5	3.4x2.4x0.3	2.4 x 1.0	22.95	19.95	18.69
206615CC	Samsung	9936	20 x 1	5 x 7	4-bit or 8-bit	5.5V@3.0mA	N	2	7.2x1.6x0.4	6.5 x 1.3	19.99	16.99	12.75
171723CC	Ampire	AC-202A	20 x 2	5 x 8	8-bit	5.0@1.7mA	Y	3, 5	4.6x1.5x0.4	3.3 x 0.7	24.95	22.49	20.25
277376CC	PicVue	PVC200401	20 x 4	5 x 8	8-bit	5.0V@1.6mA	N	—	3.9x2.4x0.4	3.0 x 1.0	23.29	20.19	16.85
277325CC	Ocular	OM4021-WGS-01	40 x 2	5 x 8	8-bit	5.0V@2.5mA	Y	5	7.2x1.3x0.6	6.0 x 0.6	24.95	21.25	15.95
215159CC	Optrex	20-20191-2	40 x 2	5 x 8	8-bit	5.5V@5mA	Y	4	7.2x1.4x0.4	5.8 x 0.5	29.99	25.49	18.95
277253CC	Emerging Display	EW40420GLY	40 x 4	5 x 7	8-bit	4.0V@10mA	Y	—	7.5x2.1x0.6	5.9 x 1.2	42.39	38.79	34.95
277333CC	PicVue	PG121202A	128 x 128 pixels	128 x 128	8-bit	5.0V@6.0mA	N	6	3.5x3.5x0.4	2.7 x 2.7	45.29	41.25	37.15
277350CC	PicVue	PVG240602A	240 x 64 pixels	240 x 64	8-bit	5.0V@6.0mA	N	6	7.1x2.6x0.4	5.2 x 1.5	61.95	56.75	46.85

*1. Control LSI HD44780 or equivalent and column driver MSM5259 or equivalent; 2. Built-in controller HD44780; 3. Controller KS0066U or equivalent; 4. Column driver: KS0063B; 5. For power supply: recommend P/N 164101CC, pg 161; 6. Dot Graphic LCD display

0.6" High 3½- & 4½-Digit LCD Digital Panel Meters

- Input Ranges: 200mV, 20V, 200V, 500V • Accuracy: ±0.5%
- Automatic polarity indication • Input impedance: >100MΩ • Size: 2.7"W x 1.7"H
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095CC, pg 169)

146835CC: Backlit display

Includes: Bezel



108388CC



175951CC



146835CC



123140CC

Part No.	Product No.	Digits	1	10	25
108388CC	PM-428	3½	\$12.95	\$11.95	\$10.95
175951CC	PM-128	3½	12.95	11.95	10.95
146835CC	PM-188BL	3½	19.95	17.99	16.19
123140CC	PM-328	4½	27.95	24.95	22.49

Corporate Customers

Opening an account is easy!! Call 1-800-831-4242 for details today.

velleman

Analog Panel Meters

New

- Includes mounting hardware
- 316507CC: includes current shunt



316603CC



316523CC

Part No.	Product No.	Measurement Range	Size (W" x H" x D")	1	10	25
316603CC	AVM6015	0 – 15VDC	2.4 x 1.8 x 1.3	\$9.29	\$7.85	\$7.85
316671CC	AVM7015	0 – 15VDC	2.8 x 2.4 x 1.4	8.79	7.49	7.49
316638CC	AVM6030	0 – 30VDC	2.4 x 1.8 x 1.3	8.79	7.49	7.49
316654CC	AVM7030	0 – 30VDC	2.8 x 2.4 x 1.4	8.79	7.49	7.49
316718CC	AVM60150	0 – 150VAC	2.4 x 1.8 x 1.3	8.79	7.49	7.49
316785CC	AVM60300	0 – 300VAC	2.4 x 1.8 x 1.3	8.79	7.49	7.49
315301CC	AIM60005	0 – 50uA	2.4 x 1.8 x 1.3	9.29	7.85	7.85
316523CC	AIM60050	0 – 50mA	2.4 x 1.8 x 1.3	8.79	7.49	7.49
316486CC	AIM60100	0 – 100mA	2.4 x 1.8 x 1.3	8.99	7.65	7.65
316558CC	AIM60500	0 – 500mA	2.4 x 1.8 x 1.3	8.99	7.65	7.65
316566CC	AIM60500	0 – 5A	2.4 x 1.8 x 1.3	8.79	7.49	7.49
316582CC	AIM705000	0 – 5A	2.8 x 2.4 x 1.4	8.79	7.49	7.49
316494CC	AIM6010A	0 – 10A	2.4 x 1.8 x 1.3	8.79	7.49	7.49
316507CC	AIM6030A	0 – 30A	2.4 x 1.8 x 1.3	8.79	7.49	7.49

Motherboards, CPUs and Heat Sinks

Color Code Legend
New Sale Qty.Save Pull Closeout

New Lower Prices
Marked in Orange

Motherboards, Drives and Memory

Intel® Processor-Based Motherboards

These Intel® motherboards provide the ultimate in speed, compatibility and confidence. They are ideal for desktop systems and embedded solutions alike. Pentium® 4 and Celeron® based configurations.



Jameco Part No.	Mfr.	Model No.	Internal Name	Board Style	Processor Support	Support FSB (MHz)	Chipset	On-Board Graphics	Memory Type (SDRAM)	Max. Mem/ Slots	Expansion Slots		On-Board Audio	USB Ports	HDD Support	On-Board LAN	Board Size	Wt. (lbs.)	Warranty	Jameco Part No.	Pricing	
																					1	10
285157CC	Intel	SE7505VB2	Vero Beach	Extended ATX	Dual Xeon™	533/400	iE7505	ATI RageXL with 8MB mem.	DDR 200/266	8GB / 4	2 x 64bit/100MHz PCI-X 1 x 64bit/66MHz PCI-X 2 x 32bit/33MHz AGP 8x/4x	↔	None	USB 2.0 6 Back / 2 Front	2-ports SATA150 (1.5Gb/s) 2-ports ATA 100	PRO/1000 MT. Server Network PRO 100 Server Connections	12" x 13"	3.8	3 years limited	285157CC	\$474.15	\$469.79
285131CC	Intel	S875WP1	Winter Park	ATX	Pentium® 4	533	i875P	ATI RageXL with 8MB mem.	DDR 400/333/266	4GB / 4	3 x 32bit/33MHz AGP 8x/4x		None	USB 2.0 4 Back / 2 Front	2-ports SATA150 (1.5Gb/s) 2-ports ATA 100	PRO/1000 XT Server Network PRO 100 Server Connections	12" x 9.6"	2.7	3 years limited	285131CC	256.35	245.99
285106CC	Intel	BOXD875PBZLK	Bonanza	ATX	Pentium® 4	800/533	i875P	None	DDR 400/333	4GB / 4	5 PCI 32bit/33MHz AGP 8x/4x		None	USB 2.0 6 Back / 2 Front	2-ports SATA150 (1.5Gb/s) RAID 0: 2-ports ATA 100	Intel® PRO/1000CT (Gigabit)	11.52" x 9.6"	2.9	3 years limited	285106CC	205.89	185.29
285093CC	Intel	BOXD865PERLL	Rock Lake	ATX	Pentium® 4/ Celeron®	800/533/400	i865P	None	DDR 400/333/266	4GB / 4	5 PCI 32bit/33MHz AGP 8x/4x	↔	Full 6-channel surround sound + optical output with jack sensing	USB 2.0 4 Back / 4 Front	2-ports SATA150 (1.5Gb/s) RAID 0: 2-ports ATA 100	PRO/100 (10/100)	12" x 9.6"	3.1	3 years limited	285093CC	142.39	128.15
285077CC	Intel	BOXD865GBFL	Bayfield	ATX	Pentium® 4/ Celeron®	800/533/400	i865G	Intel Extreme Graphic 2	DDR 400/333/266	4GB / 4	6 PCI 32bit/33MHz AGP 8x/4x		Flexible 6-channel audio with jack sharing	USB 2.0 4 Back / 4 Front	2-ports SATA150 (1.5Gb/s) 2-ports ATA 100	PRO/100 (10/100)	11.6" x 9.6"	2.8	3 years limited	285077CC	131.05	123.49
285085CC	Intel	BOXD865GLCL	La Crosse	MicroATX	Pentium® 4/ Celeron®	800/533	i865G	Intel Extreme Graphic 2	DDR 400/333	4GB / 4	3 PCI 32bit/33MHz AGP 8x/4x		Full 6-channel with jack sensing	USB 2.0 4 Back / 4 Front	2-ports SATA150 (1.5Gb/s) 2-ports ATA 100	PRO/100 (10/100)	9.6" x 9.6"	2.5	3 years limited	285085CC	142.09	134.95
285114CC	Intel	BOXD845GVSR	Seabreeze	MicroATX	Pentium® 4/ Celeron®	533/400	i845GV	Intel Extreme Graphic	DDR 333/266	2 GB / 2	3 PCI 32bit/33MHz	↔	Integrated AC97 audio	USB 2.0 4 Back / 4 Front	2-ATA 100 / 66	Intel® PRO/100 (10 / 100)	9.6" x 8.2"	2.1	3 years limited	285114CC	79.95	74.95

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



Intel® Desktop Processors

Part No.	Product Name	Mfr. Part No.	Speed (GHz)	FSB (MHz)	Cache	Package	1	10
283274CC	Pentium® 4	BX80546PG3200E	3.2	800	1MB	mPGA-478	\$311.59	\$304.99
283311CC	Pentium® 4	BX80532PG3200D	3.2	800	512kB	mPGA-478	367.09	329.39
283338CC	Pentium® 4	BX80532PE3066D	3.06	533	512kB	mPGA-478	293.75	264.35
283320CC	Pentium® 4	BX80532PG3000D	3.0	800	512kB	mPGA-478	293.55	264.19
283291CC	Pentium® 4	BX80532PG2800E	2.8	800	1MB	mPGA-478	257.95	250.25
283354CC	Pentium® 4	BX80546PE2800D	2.8	533	512kB	mPGA-478	247.09	234.75
283418CC	Intel Celeron®	BX80532RC2600B	2.6	400	128kB	mPGA-478	126.35	119.95
283397CC	Pentium® 4	BX80532PG2400D	2.4	800	512kB	mPGA-478	205.95	199.29
283434CC	Intel Celeron®	BX80532RC2400B	2.4	400	128kB	mPGA-478	99.49	96.45
283451CC	Intel Celeron®	BX80532RC2000B	2.0	400	128kB	mPGA-478	91.09	88.85

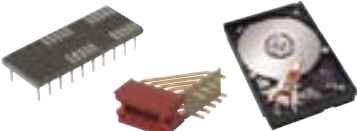
These products ship from a separate warehouse and may not ship same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD. Includes active heat sink: * Hyper-threading technology

Legacy Intel® Desktop Processors

Part No.	Description	Speed (MHz)	Package	1	10
311204CC	Intel Celeron® Processor	800	FCPGA-370	\$99.95	\$94.95
311212CC	Intel Celeron® processor	566	FCPGA-370	47.79	45.39
183118CC	Intel Pentium® III processor	600	Slot 1	99.95	94.95
183100CC	Intel Pentium® II processor	400	Slot 1	99.95	74.95
151651CC	Intel Pentium® II processor	300	Slot 1	89.95	85.45
190060CC	Intel Pentium® II w/ heat sink	233	Slot 1	89.95	79.95
150501CC	Intel Pentium MMX® processor	233	376/PGA	69.95	62.95
140054CC	Intel Pentium MMX® processor	200	376/PGA	49.95	37.45
130841CC	Intel Pentium® processor	166	296/PGA	49.95	37.45
130833CC	Intel Pentium® processor	133	296/PGA	39.95	35.95
118421CC	Intel 486DX2 processor	66	168/PGA	19.95	14.95

We're Listening... What Do You Want?

Be sure to email us 24/7 at NewProducts@Jameco.com with any products you'd like to see in future catalogs.



CPU Heat Sinks and Fans

206244CC 181278CC 190545CC 319185CC 118092CC 129226CC 191636CC 174115CC 309340CC 308742CC

- Excellent for avoiding CPU overheating during extended system on-time
- High efficiency cooling fans
- Easy installation – just snap it in

Part No.	Description	Size (H" x W" x D")	Approvals	1	10
206244CC	Heat sink w/ dual fan slot (SECC 2)	5.25 x 1.95 x 1.30	CE	\$12.95	\$11.65
181278CC	Heat sink w/ fan for socket 7 (ATX)	2.12 x 2.05 x 1.67	UL/CE/CSA	8.49	7.65
190545CC	Heat sink w/ fan for socket 370	2.45 x 2.42 x 2.10	—	13.55	12.19
319185CC	Heat sink w/ fan for socket 7 & 370	1.38 x 2.36 x 2.59	—	7.65	7.25
118092CC	Heat sink w/ fan for 586 CPU w/ snap	2.18 x 2.30 x 0.86	UL/CE/TUV	4.95	4.49
129226CC	Heat sink for 486 CPU – adhesive back	1.70 x 1.63 x 0.36	—	2.95	2.65
191636CC	Heat sink w/ fan for 486 CPU w/ clip	1.85 x 1.92 x 0.72	UL/CE/TUV	5.95	4.45
174115CC	Heat sink w/ fan for 486 CPU w/ snap	1.93 x 1.96 x 0.93	UL/CU	3.95	2.95
309340CC	Heat sink w/ fan for socket 7 (AT/ATX)	1.57 x 2.03 x 2.07	—	8.99	8.59
308742CC	Heat sink w/ fan for 586 CPU w/ snap	0.73 x 2.05 x 1.94	—	11.39	10.25

14" lead wires

For Standoffs and Mounting Hardware
See page 132.



Hard Disk Drives

3.5" LP EIDE/100 Disk Drives

Part No.	Model No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Mfr. Warranty	1	10
319361CC	WD2500SB	250GB	EIDE/100	7200	8.9	8	3 yrs	\$243.59	\$231.49
319370CC	WD1600SB	160GB	EIDE/100	7200	8.9	8	3 yrs	143.55	136.59
319388CC	WD1200SB	120GB	EIDE/100	7200	8.9	8	3 yrs	131.39	124.85

3.5" LP UATA/100 Disk Drives

319441CC	WD2500JB	250GB	UATA/100	7200	8.9	8	3 yrs	\$228.55	\$217.15
319505CC	WD2500BB	250GB	UATA/100	7200	8.9	2	1 yrs	223.45	212.29
319450CC	WD2000JB	200GB	UATA/100	7200	8.9	8	3 yrs	151.69	144.35
319513CC	WD2000BB	200GB	UATA/100	7200	8.9	2	1 yrs	146.25	139.15
319468CC	WD1600JB	160GB	UATA/100	7200	8.9	8	3 yrs	129.99	123.59
319521CC	WD1600BB	160GB	UATA/100	7200	8.9	2	1 yrs	117.85	111.95
319476CC	WD1200JB	120GB	UATA/100	7200	8.9	8	3 yrs	115.15	109.35
319530CC	WD1200BB	120GB	UATA/100	7200	8.9	2	1 yrs	106.99	101.65
319484CC	WD800JB	80GB	UATA/100	7200	8.9	8	3 yrs	89.39	84.99
319548CC	WD800BB	80GB	UATA/100	7200	8.9	2	1 yrs	79.89	75.95
319492CC	WD400JB	40GB	UATA/100	7200	8.9	8	3 yrs	75.85	72.05
319556CC	WD400BB	40GB	UATA/100	7200	8.9	2	1 yrs	68.99	65.69

3.5" SATA/150 Disk Drives

319337CC	WD2500SD	250GB	SATA/150	7200	8.9	8	3 yrs	\$253.15	\$240.55
319396CC	WD2500JD	250GB	SATA/150	7200	8.9	8	3 yrs	239.69	227.75
319409CC	WD2000JD	200GB	SATA/150	7200	8.9	8	3 yrs	166.59	158.65
319345CC	WD1600SD	160GB	SATA/150	7200	8.9	8	3 yrs	149.15	141.79
319417CC	WD1600JD	160GB	SATA/150	7200	8.9	8	3 yrs	135.49	128.99
319353CC	WE1200SD	120GB	SATA/150	7200	8.9	8	3 yrs	132.75	126.19
319425CC	WD1200JD	120GB	SATA/150	7200	8.9	8	3 yrs	120.55	114.99
319433CC	WD800JD	80GB	SATA/150	7200	8.9	8	3 yrs	93.45	88.79
319311CC	WD740GD	74GB	SATA/150	10,000	4.5	8	5 yrs	260.19	247.19
319329CC	WD360GD	36.7GB	SATA/150	10,000	5.2	8	5 yrs	153.25	145.65

These products ship from a separate warehouse and may not ship same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Legacy Mixed Manufacturer 3.5" Hard Disk Drives*

Part No.	Capacity	Description	Warranty	1	10
283231CC	20.0GB	Ultra ATA/133	3 mos.	\$59.95	\$55.95
200678CC	15.0GB	IDE	3 mos.	29.95	26.95
200660CC	13.0GB	IDE (ATA-4)	3 mos.	25.95	23.35
146333CC	2.5GB	EIDE/FAST ATA-2	1 year	33.29	29.95
124978CC	1.27GB	IDE	1 year	29.95	26.95
118949CC	850MB	IDE	1 year	49.95	47.45
115764CC	425MB	IDE	3 mos.	45.95	43.65
189914CC	9.1GB	Ultra-wide SCSI SCA	3 mos.	25.49	19.95

* Manufacturers may vary and capacity may exceed specification

DIMM and SIMM Memory Modules

Kingston Memory Modules

Part No.	Mfr. Cross Ref. No.	Capacity	Description	Config.	Pins	1	10
284998CC	KVR400X64C25/512	512MB	DDR400	64M x 64	184	\$135.69	\$125.49
285026CC	KVR266X64C25/512	512MB	DDR266	64M x 64	184	114.15	102.75
285018CC	KVR266X64C25/256	256MB	DDR266	32M x 64	184	89.95	66.45
285042CC	KVR133X64C3/256	256MB	PC133	32M x 64	168	68.29	64.89
285034CC	KVR133X64C3/128	128MB	PC133	16M x 64	168	37.95	32.45

Legacy Memory Modules

148419CC	16MBX64SDRAM	128MB	10ns Syn. DRAM DIMM	16M x 64	168	\$65.95	\$59.95
148401CC	8MBX64SDRAM	64MB	10ns Syn. DRAM DIMM	8M x 64	168	28.19	26.95
148451CC	JEED07264	64MB	60ns SIMM EDO	16M x 32	72	29.95	28.45
148398CC	4MBX64SDRAM	32MB	10ns Syn. DRAM DIMM	4M x 64	168	18.39	16.59
148460CC	8MBX36-60	32MB	60ns SIMM	8M x 36	72	39.95	36.99
148443CC	JEED07232	32MB	60ns SIMM EDO	8M x 32	72	43.95	39.59
75184CC	P364000-XX-6	16MB	60ns SIMM	4M x 36	72	21.95	20.15
130711CC	JEED07216	16MB	60ns SIMM EDO	4M x 32	72	12.75	11.45
75096CC	P362000-XX-6	8MB	60ns SIMM	2M x 36	72	21.55	19.39
130729CC	JEED07208	8MB	60ns SIMM EDO	2M x 32	72	9.95	7.45
285667CC	HB56U232	8MB	70ns SIMM	2M x 36	72	8.95	6.95
75133CC	P361000-XX-6	4MB	60ns SIMM	1M x 36	72	12.95	11.65
41751CC	421000A9B-70	1MB	70ns SIMM	1M x 9	30	3.95	3.45

These products ship from a separate warehouse and may not ship same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

ATX Vertical Full Tower Case

- Slide-off side panel access
- LED indicators for power and HDD activity
- Front panel reset switch and power switch
- Internal 8Ω speaker
- 5 exposed 5.25" bays, 3 exposed 3.5" bays, 2 internal 3.5" bays
- Size: 7.5"W x 16.8"D x 24.5"H • Weight: 25 lbs.

SALE



Jameco's Low-Price Guarantee

If you happen to find a like product at a lower print-advertised price, we'll beat that price by 10% right down to our cost! Just call us. It's that simple!

Business Card CD-R Kit

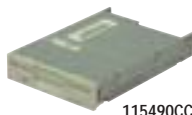
Differentiate yourself or your business from others. This kit includes 12 50MB capacity CD-R and sleeves, 16 labels and label design software. A great way to promote your business in trade shows and exhibits. Easy to carry and cost-effective.



Part No.	Description	Price
249308CC	Business card CD-R kit	\$5.59

1.44MB 3.5" Internal Floppy Disk Drives

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Size: 4.0"W x 5.9"D x 1.0"H (actual drive size)
- Weight: 1.4 lbs.



Part No.	Cross Ref. No.	Mfr.	Color	1	10
115490CC	FD235	TEAC	Beige	\$21.95	\$19.95
189165CC	—	Varies	Beige	10.95	9.95
249367CC	MPF920-Z	Sony	Beige	16.95	15.99

Internal IDE CD-ROM Drives

- 5.25" half-height design
- One-year warranty
- Manufacturer varies



Includes: Audio cable

Part No.	Speed	Buffer	kB/sec.	1	10
149307CC	24x	256kB	3600	\$27.95	\$24.95
189051CC	32x	128kB	4800	27.95	24.95
189069CC	40x	128kB	6000	32.95	27.95
189077CC	48x	128kB	7200	35.95	30.95
189448CC	56x	128kB	8400	39.95	35.95

CD-ROM Audio Cables



Part No.	Connection from Sound Blaster to	Length	1	10	50
127546CC	Sony/MPC2	25"	\$2.95	\$2.65	\$2.29
168612CC	Universal	18"	4.95	4.45	3.99

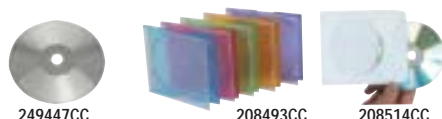
CD Laser Lens Cleaner

- 6-language voice guide instructions
- Single brush wet-dry cleaner
- Removes accumulated oils, dust and debris from CD optical lens



Part No.	Description	1	10	25
228531CC	CD laser lens cleaner	\$9.99	\$8.99	\$7.39

CD Accessories



Part No.	Description	1	5	10
249447CC	48x/700MB/80 min./100 pk.	\$28.95	\$27.95	\$27.95
172179CC	Single jewel case	.49	.41	.31
208514CC	Paper envelope 25 pk.	2.49	2.25	1.99
208493CC	Slim asst. color 10 pk.	3.95	3.75	3.49

Back Panel PC Cooling Fan

- Type: sleeve axial fan
- Back panel mountable
- Operating volt.: 12VDC @ 140mA
- Airflow: 43 CFM • Noise ratio: 26dBA
- 10.5" wire with 4-pin Molex power connector • Power: 1.7W
- Size: 4.3"L x 3.5"H x 1.1"Thick
- One-year warranty



Part No.	Description	1	10	50
152240CC	PC cooler fan	\$18.95	\$17.09	\$15.35

Thermoelectric Cooler Chips

- Cools down to -30°C (dependent on external temp.)
 - Heat or cool by changing direction of current
 - 20 AWG wire leads, 4" long
 - Temperature = 60°C max.
- 172030CC: 8.4VDC max.**
- Couples: 71 • Watts: 19.7
 - Current: 4A max.
 - Size: 1.2"L x 1.2"W x 0.2"T
- 172048CC: 15.4VDC max.**
- Couples: 127 • Watts: 35.6
 - Current: 4A max.
 - Size: 1.6"L x 1.6"W x 0.2"T
- 172056CC: 15.4VDC max.**
- Couples: 127 • Watts: 79.1
 - Current: 8A max.
 - Size: 2.0"L x 2.0"W x 0.2"T



Part No.	Mfr.	Cross Ref. No.	1	10
172030CC	TEC30		\$19.95	\$17.95
172048CC	TEC40		25.95	22.95
172056CC	TEC50		33.75	29.35

* Couples: # of P&N type semiconductor pairs connected electrically in series

Front Panel Access Ports

Enjoy easy up front access to all your most used ports, including USB, IEEE 1394, audio, and serial ports, without moving the PC.

- 208004CC: 2 USB; 1 IEEE 1394; Line-In; Line-Out; RS232 (9-pin male)
- 213532CC: 4 USB; Line-In; Line-Out



Tower not included

Part No.	Description	1	10
208004CC	Front panel port	\$34.95	\$32.45
213532CC	Front panel port	18.95	16.95

PCMCIA Card Drive For Desktop PC

Now you can have a PCMCIA drive on your desktop PC. Supports SRAM cards, FLASH cards, LAN cards and FAX/MODEM cards.

- Jumper selectable for 4 drives
- Supports DOS 5.0 or later, Windows® 3.1 or later
- Supports Type I/II/III PCMCIA cards



Tower not included

Part No.	Description	1	10
210999CC	PCMCIA drive	\$59.95	\$53.95

Mounting Kits

SALE



Quantity SAVE



Part No.	Mfr.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
180857CC							
180857CC	HDB35		3.5" hard drive mount kit (short)	0.2	\$3.89	\$3.49	\$3.15
117217CC	HDMK		3.5" kit (w/ black & gray faceplates)	0.6	7.95	6.79	5.09
32088CC	SMK		3.5" to 5.25" mounting kit (beige faceplate)	0.5	5.89	5.29	4.79

Removable IDE HDD Enclosure For 3.5" Drive Bay

- For quick drive swapping
- Power LEDs
- Keylock for security



- 196040CC: Size: 5.8"W x 8.5"D x 1.5"H • Weight: 1.2 lbs.
- 196031CC: Size: 4.1"W x 7.5"D x 1.6"H • Weight: 0.8 lbs.

Includes: Inner cable with IDE connector

Part No.	Description	1	10	25
196040CC	IDE encl. w/ insert...	\$27.95	\$20.95	\$14.69
196031CC	Insert for 196040CC...	19.95	16.99	12.99

Removable IDE HDD Enclosure For 5.25" Drive Bay

Easily remove a hard drive from your PC or workstation to safeguard your data. Ideal way to back-up data. Because rack kit is hot removable, you can remove your hard drive without shutting down your computer operations. Aluminum case transfers heat away from the drive for longer & more reliable drive life.



- 5.25" rack kit for 3.5" hard drives • Drive activity LED
- Built-in fan • Aluminum rack • Keylock for security

Part No.	Description	1	10	25
211035CC	Enclosure kit (IDE)	\$29.95	\$26.95	\$23.95

Removable IDE HDD Enclosure For 5.25" Drive Bay

- Supports DMA 66 hard drive
- Retaining lock mechanism
- 12VDC @ 50mA fan
- CFM rating: 5.6
- Size: 5.9"W x 8.7"D x 1.6"H
- Weight: 1.3 lbs.



Includes: Mounting hardware

Part No.	Description	1	10	25
170608CC	Enclosure kit (IDE)	\$25.45	\$22.89	\$19.95

External IDE HDD Enclosure with Parallel Interface

An external HDD enclosure for IDE hard drives with a parallel port interface to be connected to a PC or laptop. No drivers needed. Windows® 98 and above will automatically detect hard disk drive.



- Parallel port interface
- Built-in fan and 110V power supply

Includes: Parallel cable and power cord

Part No.	Description	1	5
249316CC	HDD external enclosure	\$19.95	\$15.95

19" Rack Mount Enclosures

Perfect for equipment setup in home, studio or laboratory.

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Top, bottom, sides durable 0.035" steel
- Front panel: 0.12" thick • Black front panel
- All enclosures have handles except P/N 132812CC

Includes: Mounting screws



Part No.	Dimensions (In.)			Weight (lbs.)	Pricing	
	H1	H2	D		1	10
132812CC	1.73	1.25	9.75	6.2	\$39.95	\$35.99
132821CC	3.46	3.0	9.75	7.9	47.95	43.49
132839CC	3.46	2.88	11.75	9.1	53.95	48.59
132847CC	5.22	4.75	11.75	10.6	63.95	55.99
132855CC	5.22	4.75	13.50	11.8	73.95	66.95
132863CC	8.56	8.0	13.50	15.4	94.95	84.95

Relay Rack & Rack Panels

Rack:

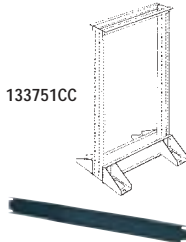
- Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base
- 1/8" aluminum side rails
- Size: 84"H (133751CC); 47.25 (231079CC)
- Size (at base): 19.8"W x 15.3"D

19" Wide Panel:

- 10-gauge black aluminum

Rack screw:

- 10/32 screw; 5/8" phillips head (50 ea.)



Part No.	Description	Height	1	10
133751CC	Relay rack	84"	\$159.95	\$144.95
231079CC	Relay rack	47.25"	\$104.95	\$95.49
133276CC	Rack panel (1U)	1.75"	9.45	8.49
229489CC	Rack panel (2U)	3.50"	10.35	9.39
229500CC	Rack panel (4U)	7.00"	14.15	12.79
229446CC	Rack screw (50 ea.)	—	8.25	7.45

Rack Mount Card Cage

- For 19" rack mounts
- 24 slots
- Weight: 6.3 lbs.
- Fits card size: 6.5"L x 5.5"W
- Size: 6.5"L x 17.3"W x 6.1"D

Quantity **SAVE**



Part No.	Description	1	10	25
172099CC	Rackmount card cage	\$7.95	\$6.75	\$5.09

19" Rack Mount CAT 5 Patch Panels

Our CAT 5 patch

panels feature 110D punch blocks that are compatible with KRONE or 110D tool. UL and CUL listed and certified, CAT 5 certified and can be used with T568 A/B installations. Blocks are color coded for T568 color-coding, and easy wire management.



Part No.	Description	1	10
208768CC	12-port patch panel	\$28.99	\$27.55
208784CC	24-port patch panel	42.75	39.95

Cabinet Mounting Plate for 19" Cabinet

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H
- Color: beige



Part No.	Description	1	10
149500CC	Cabinet mount plate	\$39.95	\$35.95

19" Rack Mount Keyboard Tray

This sliding keyboard tray only occupies a 1U or 1.75" space on a rack mount. A hinged articulating arm provides cable management and accommodates most standard size keyboards.



- Black powder coat finish
- Size: 20.0"W x 9.0"D x 3.5"H

SALE

Part No.	Description	1	10
229471CC	19" rack mount KB tray	\$70.99	\$64.55

19" Rack Mount Drawer with Keyboard and Trackball

- Occupies a single unit (1U) rack space
- PS/2 connector for keyboard and trackball
- Color: gray
- Size: 19"W x 13"D x 2.8"H
- Weight: 18 lbs.



Includes: Wrist pads, module, PS/2 to 5-pin DIN and PS/2 to 9-pin adapters, and software

Part No.	Description	1	10
220644CC	Rack mount KB drawer	\$249.99	\$234.99

PC Speakers

Perfect for desktop PCs with limited amount of space. Compatible with any desktop PC.

- 3.5mm stereo male plug
- Size: 4.7"H x 3.0"W x 4.0"D



Part No.	Model No.	1	5	10
311079CC	5065-5746 NEW	\$19.95	\$17.95	\$17.05



Dragon 180-Watt Multimedia Speakers

- 2-Channel stereo amplifier
- Magnetically shielded
- Two 3" 4Ω full-range speakers
- Frequency response: 100Hz to 20kHz
- Front panel control for volume, power, 3.5mm mini stereo jack
- Size: 7.0"H x 3.0"W x 5.3"D • Weight: 2.0 lbs.



SALE

Power requirements: 2-prong 110VAC input

Part No.	Description	1	10	25
277229CC	180W speakers	\$14.95	\$13.45	\$12.09

Harman/Kardon Multimedia Amplified System

- 4.5W RMS per amplified speaker
- Transducer: 3" full range driver, magnetically shielded
- Freq. range: 90Hz to 20kHz
- Volume control, bass and treble control, LED indicator and headphone jack
- Size: 8.5"H x 4.5"W x 5.0"D • Weight: 4.7 lbs.

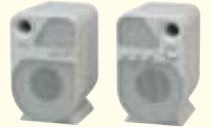


Includes: 16VAC @ 1A power supply

Part No.	Description	Quantity	1	10
211001CC	H/K speaker system	SAVE	\$12.95	\$9.49

480-Watt Multimedia Speakers

- 2 magnetically shielded speakers
- 2-channel stereo amplifier
- Push button type power switch with LED indicator
- Knob controls for volume, bass & treble • Input voltage: 120VAC
- Size: 5.5"W x 7.0"D x 9.1"H • Weight: 5.3 lbs.



Part No.	Description	1	10
196066CC	480W speakers	\$39.95	\$35.95

Powered Subwoofer System

The satellite speakers deliver big stereo sound in a small package that will complement any desktop. And the compact subwoofer discreetly belts out the bass to make your music and gaming experiences the best they can be.

- Frequency response: 110Hz - 18kHz ±3dB
- Input Impedance: 10KΩ
- Voltage: 110VAC • Weight: 3.14 lbs.
- Speaker size: 5.4"H x 2.8"W x 4.6"D
- Subwoofer size: 6.0"H x 4.3"W x 5.4"D



Part No.	Description	Price
233390CC	Powered subwoofer system	\$10.49

Self-Amplified Speaker and Subwoofer System

The key to this 3-piece out-standing speaker system is the 2 1/2" satellite speakers that deliver rich mid and high frequency response. Using advanced computer modeling, Boston Acoustics designed drivers that reproduce seven audible octaves with remarkable accuracy and smoothness. The satellite speakers come with their own stand and MagnaGuard magnetic shielding to prevent video interference.



- Weight: 6.0 lbs.

Includes: 12VAC @ 2A power supply

Part No.	Description	1	5
213911CC	Speaker/subwoofer system	\$29.95	\$26.95

Hands-Free Condenser Microphone

- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- One-year warranty



Part No.	Description	1	10	50
135247CC	Microphone	\$4.49	\$3.99	\$3.65



USB Interface Cards

Part No.	Manufacturer	Mfr. No.	Bus Type	Ports	Connectors	Product Description	1	10
208047CC	—	CI-6620	PCMCIA	2	USB	32-bit cardbus, 480Mbps transfer rate, supports Windows® 98/ME/2000 and MAC OS 8.6	\$48.69	\$44.25
310201CC	— NEW	USB/PCI5	PCI	4 ext / 1 int	USB	USB 2.0 compliant, open host controller interface USB 1.0A compliant, supports 1.5Mbps to 480Mbps, up to 127 devices, Windows® 98/ME/2000/XP	14.95	14.19

Firewire Interface Cards

215984CC	—	U02-00315	PCMCIA	2		Up to 63 devices on the same port, 32-bit bus, IEEE1394 compliant, 400Mbps max., backward compatible, supports Windows® 98SE/ME/2000/XP and MAC OS 8.6 or above. Includes 6' cable, manual and ULEAD VideoStudio software	\$56.59	\$50.85
----------	---	-----------	--------	---	--	---	---------	---------

Network Interface Cards

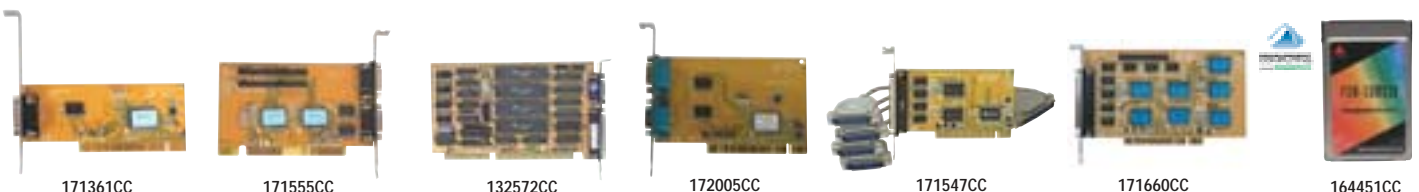
285501CC	—	RTL8139D	PCI	1	RJ-45	IEEE802.3 and 802.3u compliant, auto detection of 10Mbps or 100Mbps, N-way 10/100 auto negotiation. Includes user's guide, and 3.5" diskette drivers	\$13.49	\$12.15
285510CC	—	905B	PCI	1	RJ-45	IEEE802.3 and 802.3u, N-way 10/100 auto negotiation	13.99	12.59
285528CC	—	GD82559	PCI	1	RJ-45	IEEE802.2 and 802.3 compliant, 6kB cache on board, 10/100 auto negotiation, supports Windows® 95/98/2000/NT3.51/NT4.0	13.99	12.59
313710CC	Phoebe Micro NEW	OCTNIC-100	PCI	1	RJ-45	IEEE802.3 auto negotiation compliant, auto selection of data transmission speed, Windows® 95/98/NT/ME/2000/XP compatible. Includes 3.5" diskette drivers	12.65	11.99
289238CC	3-COM	3C509B-COMBO	ISA	2	RJ-45/AUI/BNC	IEEE802.3i (10Base-T) and IEEE802.3 (10Mbps) compliant. For manuals and drivers please visit www.Jameco.com	9.49	8.99
308769CC	3-COM NEW	3C509B-TPO	ISA	1	RJ-45	IEEE802.3i (10Base-T) and IEEE802.3 (10Mbps) compliant. For manuals and drivers please visit www.Jameco.com	15.49	13.95
308646CC	COMPEX NEW	RL200A-PnP	ISA	2	RJ-45/BNC	IEEE802.3 (10-BaseT) 10Mbps, supports NETWARE, LAN manager, Windows® 95/NT/Workgroups/OS2. Includes 3.5" disk drivers. For drivers please visit www.Jameco.com	18.09	16.25

Modem Cards

311706CC	Dolphin NEW	CX11252	PCI	—	RJ-11	300-56K data line speed, 2400-14.4K fax line speed, IUT V.92/90/34/32bis/23bis/22A/22B compatible, group 3 w/ T.30 protocol compatible. System requirements: Pentium w/ PCI slot available, 16MB of memory, Windows® 95/98/ME/NT/2000. For manual and drivers please visit www.Jameco.com	\$8.99	\$8.65
----------	-------------	---------	-----	---	-------	---	--------	--------

Serial Interface Cards

171361CC	—	4025A	PCI	1	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, single 16C550 System requirements: 486/Pentium and higher compatibles, Windows® 95/98/NT/2000.	\$38.95	\$35.95
171555CC	—	99378	ISA	2	DB9	16-byte FIFO, 921kb/sec transfer rate, IRQ 3/5/7/9/10/11/15 and address jumper configurable, dual 16C550 DB9 male. System requirements: 486/586 and higher compatibles, Windows® 95/98/NT/2000. Includes manual and drivers on CD-ROM	24.95	21.85
132572CC	—	TC-400-550	ISA	4	DB9 DB25	16 or 32-byte FIFO, IRQ 3/5/7/9/10/11/12/15, supports IRQ sharing, dual 16C550 DB9 male, dual 16C550 dual DB25 male. System requirements: IBM AT & higher compatibles. Includes DB9 and DB25 male panel bracket assembly and instruction sheet.	59.95	53.95
172005CC	—	99467	PCI	2	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male. Includes manual and drivers on CD-ROM and floppy disk	48.45	43.65
171547CC	—	99468	PCI	4	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550. Includes manual and drivers on CD-ROM and floppy disk, cable (37-pin to 4 DB25 male)	129.95	116.95
171660CC	—	99469	PCI	8	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650. Includes manual, internal cable w/ bracket, 2 cables (37-pin male to 4 DB25 male), and drivers on CD-ROM	179.95	161.95
164451CC	Measurement Computing	PCM-COM232	PCMCIA	1	DB9	5/6/7/8 data bits, odd/even/no parity, 115k baud data rate, PCMCIA II compliant, configured as COM1/COM2/COM3/COM4. Includes 1ft cable.	97.95	92.95





Parallel Interface Cards

Part No.	Manufacturer	Mfr. No.	Bus Type	Ports	Connectors	Product Description	1	10
146691CC	—	4006A	PCI	1	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported	\$23.95	\$21.95
171926CC	—	4008A	PCI	1	DB25	32-byte FIFO, 2MB/sec transfer rate, supports ECP and EPP, supports IRQ sharing, DB25 female. System requirements: 486/586 and higher compatibles, Windows® 95/98/NT/2000. Includes manual, and drivers on CD-ROM	39.95	35.95
163707CC	—	4014A	PCI	2	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported	28.95	25.95
312039CC	Kouwell NEW	KW-508G-2	ISA	2	DB25	Dual DB25 female. ECP/EPP/SPP mode compliant, LPT1/2/3 or disable selectable, IRQ address selectable. Includes backpanel bracket w/ cable DB25 connector	24.05	22.85

Serial and Parallel Interface Cards

169594CC	—	4078A	PCI	—	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported. Includes parallel DB25 female panel bracket assembly (single parallel / dual 16C550 serial)	\$59.95	\$53.95
----------	---	-------	-----	---	------	---	---------	---------

Super I/O Controller Cards

131318CC	—	KW-557A	ISA	—	Mult.	Supports 2 IDE and 2 floppy drives, single parallel port, dual RS-232 (16550 UART). Includes manual and cables.	\$29.95	\$26.95
206316CC	—	CA8390	ISA	—	Mult.	16-bit data transfer, supports 2 floppy drives (360k, 720k, 1.2Mb, 1.44Mb), controls 2 AT BUS hard disk drives, high bandwidth host interface works up to 16MHz.	19.95	17.95
291901CC	—	MCT-IDEFH-2	ISA	—	Mult.	16-bit interface, supports 2 IDE hard drives up to 528MB and 2 floppy drives from 360kb to 1.44Mb, jumper selectable for enabling and disabling ports, jumper connector for LED drive activity. Includes quick installation guide and cables.	28.89	25.99
149294CC	—	CI-2020	ISA	—	50-pin SCSI2 Female	DOS/Windows® /NT/95/OS2 Netware/SCO UNIX, internal and external SCSI connectors. Includes setting sheet, ribbon cable, and 3.5 disk drivers	37.35	33.95
191513CC	—	AHA-2940U2B	PCI	—	68-pin Female Ultra SCSI2	AIC-7890AB chipset, Windows® 95/NT, Netware, OS/2 compatible, internal/external ULTRA II SCSI 68-pin connectors, supports ULTRA SCSI II peripherals at speeds up to 80MB/sec or Ultra/Ultrawide peripherals up to 40MB/sec, supports up to 15 SCSI devices	29.95 \$69.95	26.95

Video Graphics Cards

248840CC	—	PS32985DR-8MB	PCI	—	HDDB15	Savage IX 8MB graphics accelerator, built-in direct draw accelerator and NTSC/PAL video encoder 4-bit resolution, supports per pixel texture perspective correction, Z and alpha buffer	\$39.95	\$35.95
----------	---	---------------	-----	---	--------	---	---------	---------

Sound Cards

249404CC	Creative	CT4830	PCI	—	Multi	2-audio line-out/mini-phone stereo 3.5mm F, 1 microphone input/mini-phone phono 3.5mmF, 1 audio line-in/mini phono stereo 3.5mm F and 1 game port/midi DB15F, max sampling rate: 48KHz. Compatible with Windows® 95/98/NT4.0. Includes: CD-ROM drivers	\$36.95	\$35.19
----------	----------	--------	-----	---	-------	--	---------	---------

Parallel Port Complete

Lakeview Research Hands-on approach to PCs and their connections to parallel ports. This state-of-the-art book offers many tips on how to get the most out of your parallel port. Enhanced (EPP) and extended capabilities (ECP) types are covered. (343 pages, 1999)

- Windows® 3.1 & Windows® 95 • Selecting cables
- PC to PC links • Size: 7.0" x 10.0" • Weight: 1.4 lbs.

Includes: 3.5" diskette

Part No.	Description	Price
138261CC	Parallel Port Complete	\$39.95 \$32.89

Serial Port Complete

Lakeview Research Provides you with everything you need to design, program, install and troubleshoot the links you set up. (306 pages, 1998)

- Size: 7" x 10"
- Weight: 1.3 lbs.

Includes: 3.5" diskette

Part No.	Description	Price
154771CC	Serial Port Complete	\$39.95

Complete Embedded Ethernet and Internet Book

Lakeview Research Learn about networking with embedded systems. Topics include networking basics, hardware options in building a network, using internet protocol in local and internet communications. (482 pages, 2003)

- Size: 7.0" x 9.0" • Weight: 1.7 lbs.

Part No.	Description	Price
236945CC	IC Design Projects Book	\$44.95

PCI GPIB IEEE-488.2 Board

PCI Bus

- 1 MB/s transfer rate
- 1024 word FIFO buffer
- 7 interrupt lines, shared interrupt capability
- IEEE 488.2 standard interface
- Complete talker/listener/controller
- Transparent interrupt enabling/disabling

Part No.	Mfr. Cross Ref. No.	1	10
177121CC	PCI-GPIB-1M	\$398.95	\$358.95
73154CC	IEEE-488 1 meter cable	36.49	32.79
115781CC	IEEE-488 2 meter cable	37.95	34.19
115801CC	IEEE-488 4 meter cable	38.95	36.19

Digital Input/Output Board TTL Level

PCI Bus

- Output: 2.5mA @ 0.45V sink, 2.5mA @ 2.4V source
- 24-bit digital I/O
- Three 8-bit ports

Includes: InstaCal: installation & test utilities software

Part No.	Product No.	1	10
197827CC	PCI-DIO24	\$88.95	\$85.95



Diagnostic Card for PCI-Bus Systems

This is the first diagnostic card for monitoring POST results in systems using PCI-Bus architecture.

- LEDs for monitoring power (DC): +12, -12, +5, +3
- Comprehensive manual w/ error codes from all major BIOS manufacturers including AMI, AWARD, PHOENIX and more • One-year warranty

Part No.	Description	1	10
135108CC	PCI-POST diagnostic card ..	\$265.95	\$239.95

External 3-Port USB Thumbhub

Expand your single USB port to a stacked 3-port thumbhub.

- USB Revision 1.1 compliant
- LED indicators uplink/down port communication, and OCP status
- Supports full speed (12Mbps) and low speed (1.5Mbps) transfer rate
- Self-powered mode
- Compatible with Windows® 98/98SE/2000/ME/MAC OS 8.5
- Size: 3.1"L x 0.8"W x 1.2"H



Part No.	Description	1	10
208451CC	3-port thumbhub	\$13.99	\$12.65

2-Port Mini USB Hub

- USB 1.1 compliant
- Bus powered mode indicated by power LED
- Downstream port supports full and low speed operations
- Plug & Play



System requirements: IBM compatible Pentium® 233MHz or faster and MAC PC, 64MB of RAM, available USB port, compatible with Windows® 98SE/ME/2000/XP/Mac OS 8.6 or higher

Part No.	Description	1	10
291856CC	2-port mini hub	\$23.25	\$20.95

External 7-Port USB Hub

- 7 USB-A female output ports
- USB-B female root port
- Plug & Play compatible
- Allows you to attach 128 USB devices to your PC
- LED indicators for port, status, and power
- Size: 7.9"L x 2.8"W x 1.1"H • Weight: 2.6 lbs.



Includes: 6VDC power adapter and USB-A male to USB-B female cable

Part No.	Description	1	10
191450CC	7-Port USB hub	\$34.19	\$25.45

External USB-A IrDA Transceiver

Convert your USB port into an infrared communications port.

- Adjustable base for height and angle
- Plug & Play
- Supports standard USB port
- Meets IrDA v1.0 and v1.1
- Supports data transfer rate from 115.2k up to 4Mbit per second
- Transmission distance of 3.3' or 39.4'
- Size: (including base) 2.4"L x 1.6"W x 0.9"H



System requirements: Windows® 98/ME/2000/XP

Includes: Manual, extension cable and 3.5" drivers

Part No.	Description	1	10
213903CC	USB-A to IrDA transceiver	\$35.59	\$32.39

AmbiCom Wireless Printer Kit

Print up to 100 Feet Away, Wirelessly!

The wireless revolution makes your current printer conveniently cable-free! Works with USB connected Canon, Epson, HP and Lexmark printers.

- USB-B type adapter for printer and USB-A type adapter for PC
- Windows® 98SE/ME/2000/XP and Mac OS X compatible
- Receiver sensitivity: -84dBm • 128-bit encryption • Plug & Play

Part No.	Description	Data Throughput	Frequency Range	Price
235133CC	Wireless printer kit	340kbps	2.4GHz - 2.4835GHz	\$69.95

USB Thumb Drives

Thumb drives are compact and fit easily in your pocket or hang around your neck. Portable and lightweight, no external power needed. No drivers necessary for Windows® ME and above.

- 10 year data retention • Size: 2.9"L x 0.7"W x 0.4"H
- Windows® 98/98SE drivers are available at www.Jameco.com



Part No.	Description	1	10
217761CC	32MB	\$24.95	\$22.69
217779CC	64MB	39.95	37.15
217787CC	128MB	59.95	55.95
217795CC	512MB	159.95	145.95

SmartBeam™ Infrared Adapter

Provides the simplest and fastest way to interface your PC or laptop with palmtops, organizers, and even printers. Using industry standard

IrDA 1.0 technology, it can communicate with other devices that are IrDA up to 115.2kbps. Connect this device to a serial port and share files, printers, and even send email.

Includes: Software & DB9 M-to-DB25 F serial adapter

Part No.	Description	1	10
291821CC	Infrared adapter	\$25.89	\$23.29

Multimedia Card Reader

USB Interface

An easy way to upload photos, files, movies, and data from your multimedia flash memory card to your computer! Drag and drop files from the card to your computer and vice versa.

- USB-A male connector
- 1 expansion slot for multimedia card
- Compatible with PC's and MAC's



Part No.	Product No.	1	5	10
278125CC	SDDR-1201	\$9.95	\$8.95	\$7.99

Everything You Need To Develop Custom USB Peripherals Book

Lakeview (2nd Edition) Provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (523 pages, 1999)

- Size: 7.0" x 9.0" • Weight: 1.9 lbs.

Part No.	Description	Price
171900CC	Complete USB Book	\$49.95



IBM® 8-Port Ethernet Hub

Although designed to the exacting standards of IBM for use in large corporate networks, its price and easy setup make it perfect for small office or home office use. Compatible with all standard STP, UTP, and FTP cables. Can be cascaded to support larger networks via the MDI (uplink) port.

- Size: 8.7"W x 5.3"D x 1.1"H • Weight: 1.7 lbs.



Part No.	Description	1	10
226149CC	8-port hub	\$44.95	\$39.95

NETGEAR® 4-Port Firewall Router

11Mbps Cable/DSL

This true firewall is broadband capable, and provides you with the utmost in business class security - Denial of Service (DoS) protection and Intrusion Detection using Stateful Packet Inspection (SPI), URL access and content filtering, logging, reporting, and real-time alerts. Up to 253 users can access your broadband connection at the same time.

- Size: 7.4"W x 4.9"D x 1.3"H • Weight: 1.8 lbs.

Includes: 10' CAT5 cable, power adapter, user guide & CD-ROM software

Part No.	Description	Price
233331CC	11Mbps cable/DSL firewall router	\$67.75



AUI/10BaseT Transceiver

Provides connectivity with work stations equipped with AUI ports to 10BaseT ethernet local area network. Switch selectable SQE (signal quality error)/ "Heartbeat Test" to detect collision.

- IEEE 802.3 10BaseT compliancy
- 4 LED indicators for receive, transmission, collision and link
- AUI 15-pin RJ45 connector
- Size: 2.3"L x 1.7"W x 0.8"H • Weight: 0.2 lbs.



Part No.	Description	1	10
215917CC	Ethernet transceiver	\$29.95	\$27.95

intel® AnyPoint Home Network

Powerful, Simple, Fast Network!

Save money sharing files, printers, modems and DSL connections on a network. Installing networks require Ethernet cards, hubs, cables, reading extensive manuals, opening up your computer to install hardware, and so on. Install this network in three easy steps: connect the cables to the parallel port of your PC & existing phone lines of your home, install the software with its tutorial interface, and you have a network up and running.

Includes: 2 phone cables, 2 data cables (parallel cables), 2 power supplies, manual & CDROM drivers

System requirements: 486 or higher processor, Windows® 95/98, 8MB of RAM, 18MB of hard disk space, parallel port for printer use

Part No.	Size	Price
220417CC	3.8"W x 3.8"D x 8.0"H	\$9.95



Short Haul Modem

- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS-232 interface (DB25 female)



Part No.	Description	1	10	25
116581CC	Short haul modem	\$29.95	\$26.95	\$23.95

External 56kbps Fax/Modem with Digital Answering Machine

- Digital telephone answering machine with voice mail system
- RS-232 (DB9 female) interface
- Modem speed: 300-56000bps
- Error correction: ITU-T V.42, MNP2-4
- Data compression: ITU-T 1.42bis, MNP5
- Flow control: RTS/CTS, Xon/Xoff
- Fax/modem line speed: 2400-14400bps
- Standard compatibility: ITU-T V.17, V.27 ter, V.29
- Command set: Class 1, 1.0, 2 and associated AT command sets
- Size: 6.3"L x 4.0"W x 1.3"H



System requirements: Pentium® or PC compatible with 16MB of memory, available RS-232 slot; Windows® 9x/ME/NT4.0/2000/XP

Includes: RS-232 cable (DB25/DB9 female to DB9 male); phone cord, 9VAC@1A power supply, CD-ROM drivers and manual

Part No.	Description	1	10
216493CC	Serial modem (Rockwell)	\$45.95	\$43.65

USB Fast Ethernet Adapter

- Plug and Play
- IEEE802.3 (10 BaseT) and IEEE802.3 (100 BaseT) specification compatible
- USB Rev 1.0 and 1.1 compatible
- Supports OHCI and UHCI
- Self-powered
- 1 upstream USB port and RJ-45 port
- Supports Windows® 98/ME/2000/XP



Part No.	Description	1	5	10
310797CC	USB-Ethernet Adapter	\$21.69	\$19.55	\$17.55

RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
- Data rate: 1MB/second
- 4-wire full duplex or 2-wire half duplex
- Controlled by RTS signal
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-485: terminal block and RJ11 connections
- RS-232: DB25 female connector
- Input: 110VAC; except P/N 129218CC 220VAC input
- Weight: 0.9 lbs.
- One-year warranty



197931CC: port powered (power adapter not included)

122956CC: features RS-485SI; optical isolation: 2000V

129218CC: features 220VAC input

Includes: 9VDC @ 300mA power adapter

Part No.	Description	1	10
117701CC	RS-232-485/422	\$57.95	\$51.95
197931CC	RS-232-485/422	69.95	62.99
122956CC	RS-232-485/422 OPT ISO	119.99	107.99
129218CC	RS-232-485/422 (220 VAC)	42.95	36.95

Wall Mount Phone Plate with DSL In-Line Filter

Replace your existing regular wall mount phone plates with this phone plate with built-in DSL in-line filter.

- Stop band isolation is 21dB from 25kHz to 50kHz and 25dB or greater
- Filter topology: 2-pole low pass
- DC resistance through T&R to telephone port is 13Ω maximum
- Size: 4.7"H x 3.2"W x .025"Thick



Part No.	Description	1	10
237041CC	Phone mounting plate	\$9.99	\$8.99

Single-Line Telephone Filter

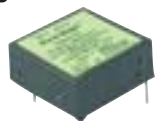
In-line Z-BLOCKER® filter blocks interference between DSL/HPN, voice and RF from cordless phones. Plugs directly into any standard phone jack and works with any single line phone, fax or dial-up modem.



Part No.	Description	1	10	25
196429CC	Telephone filter	\$7.95	\$7.15	\$6.25

Black Magic Telephone Ringing Generator

Switching inverter that produces low-frequency alternating current to signal telecom ringers or equivalents.



- Series resistor: 300Ω
- Nominal output voltage: 86Vrms
- No reverse polarity protection
- Frequency: 20Hz

Part No.	Product No.	1	10	25
145816CC	LBMR12	\$26.95	\$24.49	\$21.95

Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/Xoff; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Stop bits: 1 or 2
- Weight: 0.8 lbs.
- Baud rate: 300 to 38,400bps
- Size: 4.0"L x 2.5"W x 1.0"H
- One-year warranty



Includes: AC adapter (9VAC @ 200mA) and manual

Part No.	Description	1	10	25
116935CC	Bi-converter	\$49.95	\$44.95	\$39.95

Bidirectional Serial-to-Parallel Converter

115.2kbps, 512kB Buffer

- One DB25 female connector, one Centronics 36-pin male connector
- Fully compatible w/ Win® 95
- DCE/DTE selectable
- Baud rate: 300bps – 115,200bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status
- Size: 3.8"L x 2.4"W x 1.0"H
- One-year warranty



Includes: 9VAC @ 200mA adapter

Part No.	Description	1	10
182983CC	Serial/parallel converter	\$48.49	\$44.95

UTP Ethernet Cable Tester

- Connector type: RJ45 8P8C
- System used: 258A, 356A, AT&T/Ethernet 10BaseT
- Miswire, open, short tests

Requires: 9V battery (recommend P/N 151095CC, pg 169)

Includes: Zipper case



Part No.	Size	1	10
115895CC	4.5"L x 2.5"W x 1.3"H	\$29.95	\$26.95

Modular Cable Tester

Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc.



- Check for cable continuity, miswiring, open, short, grounding, and pin configurations
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM & BNC F-F
- On-board conn.: 2 RJ45F (tester) & 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote)

Includes: Manual and test cables

Part No.	Description	1	10
145710CC	Modular cable tester	\$84.95	\$76.49

Tone Generator & Amplifier Probe For Tracing Wires & Cables

- Tests wire trace, continuity, clear/busy/ringing line, tip/ring identification
- Insulated inductive probe tip prevents shorting conductors
- Selectable continuous or variable tone generation
- Output jacks for both headphones and handsets

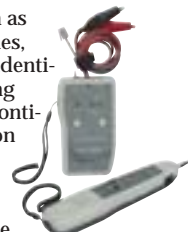


Includes: Alligator test leads, modular phone connector cables, 9V battery, and carrying pouch

Part No.	Description	1	10
198002CC	Tone gen. & amp. probe	\$79.95	\$71.95

Net Toner and Probe Kit

With testing functions such as sending tones, verifying lines, indicating line conditions, identifying tip and ring, providing "talk" battery and testing continuity, you can use this kit on single conductor, twisted pairs, coaxial cables, and non-energized electrical wiring. Connections include alligator clips, RJ45 jacks and RJ12 plugs.

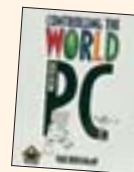


Includes: Padded zipper case w/ belt loop & spare tips

Part No.	Description	1	5
227897CC	Net toner & probe kit	\$79.95	\$76.95

Controlling the World with Your PC

Hightext Publishing Make your PC control stepping motors, monitor fluid levels, or switch appliances on and off! Each of the circuits in this book connects directly to the parallel printer port of your PC and comes complete with a circuit diagram and listings for control software written in Pascal, C and BASIC. (257 pages, 1994)



Includes: 3.5" disk

Part No.	Description	Price
116943CC	Controlling the World	\$44.95

Keyboards and Keypads

Color Code Legend
New Sale Qty. Save Closeout



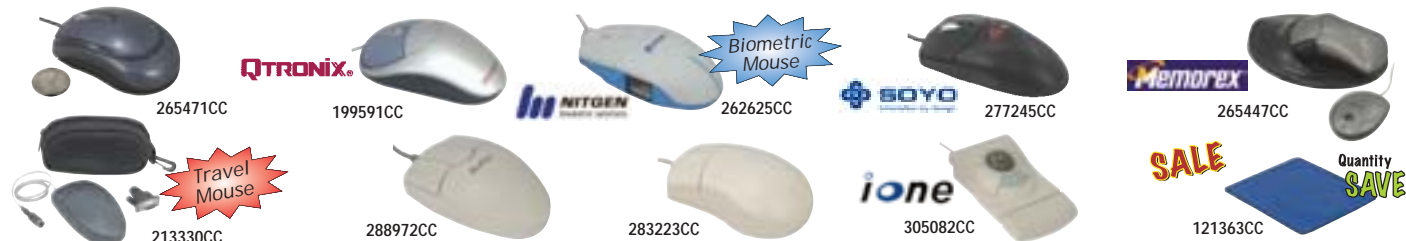
Keyboards

Part No.	Mfr.	Product No.	Description	Interface	Features	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
319636CC	IONE	Scorpius 83 NEW	83-key tactile compact keyboard	PS/2	Auto repeat; N-key rollover	12.8 x 6.2 x 1.0	1.8	\$40.15	\$38.15	\$36.25
311183CC	—	HMB-631PUS NEW	84-key soft-touch mini keyboard w/ track point mouse	PS/2	Auto repeat; N-key rollover	12.8 x 6.2 x 1.0	5.0	46.49	44.15	41.95
114868CC	—	MCK-84SX	84-key tactile keyboard	5-pin DIN	Windows® 95 compatible	12.8 x 6.6 x 1.0	2.4	49.95	44.95	38.95
211756CC	—	WK-540	88/89-key soft touch keyboard	5-pin DIN	Windows® compatible	11.4 x 8.5 x 1.2	2.3	59.95	53.95	48.95
191530CC	COMPAQ	1PRT235BT	101-key tactile keyboard w/ touchpad	PS/2	12 function keys w/ separate cursor and numeric keys; recommend P/N 85500CC pg 79 or 159089CC pg 103 for adapter	18.3 x 6.5 x 1.3	3.6	18.95	16.95	14.95
308793CC	IONE	Scorpius-2K NEW	103-key soft touch keyboard	PS/2	Windows® 98SE/2000/ME/XP compatible	15.9 x 6.5 x 1.3	2.0	39.95	35.95	32.49
173649CC	SUN	3201256-1	104-key tactile Keyboard	PS/2	12 function keys w/ separate arrow and numeric keys; Windows® 95 compatible	18.2 x 7.0 x 1.5	2.7	12.95	9.75	6.85
128718CC	IONE	Scorpius 35PU/NET	104-key tactile Scorpius	PS/2	N-key rollover; built-in jumbo trackball; Windows® 95 compatible; includes software and USB adapter	19.0 x 16.8 x 1.4	3.7	99.95	94.75	89.55
308101CC	Labtech	967360-0403	104-key RF Keyboard and 3-button optical scroll mouse	PS/2	Multimedia hot keys, includes installation guide and 4 AA batteries. System requirements: IBM or compatible system, available PS/2, Windows® 95/98/ME/NT/2000/XP, CD-ROM drive	18.0 x 8.7 x 1.6	4.5	37.25	35.49	33.69
263521CC	—	RT3604	104-key soft touch USB keyboard	USB	12 function keys w/ separate cursor and numeric keypad; extra USB ports on rear and side; Windows® start menu key	18.6 x 7.8 x 3.8	3.8	16.25	15.45	14.65
233381CC	—	AK7500	104/105-key RF wireless keyboard and mouse	PS/2	16 internet/media hot keys; enhanced Windows® layout; includes wireless 3-button scroll mouse, 4-AA batteries for mouse and receiver, CD-ROM software	18 x 7.8 x 1.7	3.2	24.95 \$27.95	23.69	22.49
268402CC	—	Dragon K/B	105-key soft touch multimedia keyboard w/ 21 hot keys	PS/2	Enhanced 95/98/2000 keyboard layout; 12 w/ separate cursor and numeric keys; multifunction keys for email/multimedia/sound; Windows® start menu	17.5 x 6.3 x 1.5	1.8	12.19	10.95	9.89
235563CC	—	S20312	Illuminated Keyboard 105-key soft touch	PS/2	12-function keys w/ wakeup button and separate keypad, on/off switch	15.3 x 5.9 x 1.3	1.7	75.99	72.19	68.59

Keypads

265375CC	QTRONIX	Scorpius 22RB	22-key serial keypad	Serial	Drivers and manual	6.2 x 4.2 x 1.3	0.8	\$39.95	\$35.95	\$32.49
319054CC	—	KB22APB NEW	22-key PS/2 keypad	PS/2	Tactile key, PS/2, IBM compatible includes PS/2 AT adapter	6.3 x 4.3 x 1.5	0.7	33.69	31.99	30.39
151811CC	QTRONIX	Scorpius 20PB	17-key PS/2 keypad	PS/2	Tactile type, 2-key rollover, auto repeat function	5.6 x 3.4 x 0.9	0.5	34.95	31.49	27.95
210690CC	—	CSP-3017 NEW	17-key PS/2 keypad	PS/2	Tactile key, PS/2, IBM compatible w/ desktops & laptops	5.3 x 3.9 x 1.3	0.6	29.95	26.95	24.95

Mice and Trackballs



Part No.	Type	Interface	Description	Size (L" x W" x H")	1	10	25
265471CC	Optical	USB	Mini optical mouse	3.7 x 2.2 x 1.3	\$17.89	\$16.99	\$16.15
199591CC	Optical	USB	3-button w/ optical wheel	3.9 x 2.3 x 1.5	29.95	26.95	24.25
262625CC	Optical	USB	EyeD USB OptiMouse w/ biometric recognition software	5.1 x 2.5 x 1.5	\$125.95 115.95	110.19	99.99
277245CC	Optical	PS/2	3-button opto-mechanical	4.7 x 2.4 x 1.6	7.35	6.65	5.95
265447CC	Optical	PS/2	5-button wireless optical ScrollPro w/ PS/2 to USB adapter	4.9 x 3.0 x 1.6	29.95	28.45	27.29
213330CC	Mechanical ball	PS/2	2-button retractable cord travel mouse	4.5 x 2.4 x 1.1	9.95	8.95	8.95
288972CC	Mechanical ball	PS/2	3-button PS/2	4.2 x 2.5 x 1.3	4.95	4.49	4.05
283223CC	Mechanical ball	DB9 female	3-button serial	4.3 x 2.6 x 1.6	6.15	5.55	4.99
305082CC	Trackball	PS/2	PS/2 Trackball w/ USB adapter	5.6 x 4.7 x 1.9	29.95	26.95	24.25
121363CC	—	—	Mini mouse pad	7.0"L x 5.5"W	3.79	3.19	2.35



KVM Switchboxes

Part No.	Mfr.	Product No.	Description	Connectors	Size (L" x W" x H")	Wt. (lbs.)	1	10
132249CC	—	40H1-25602	2-user switchbox (1PC to 2 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male). Recommend P/N 114913CC (5-pin M-M cable); P/N 66173CC (DB15HD M-M cable); P/N 132345CC (DB9 F-F cable) pg 80	7.5 x 5.3 x 2.8	1.6	\$17.95	\$15.95
134017CC	—	40H1-25604	4-users switchbox (1PC to 4 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male). Recommend P/N 114913CC (5-pin M-M cable); P/N 66173CC (DB15HD M-M cable); P/N 132345CC (DB9 F-F cable) pg 80	7.5 x 5.3 x 2.8	2.3	21.95	19.95
114155CC	—	40H1-14402	2-way keyboard / mouse switchbox (2PCs to 1 user)	HDDB15 female / 5-pin DIN female	6.0 x 4.0 x 2.3	1.3	14.95	13.49
79177CC	—	40H1-07402	2-way keyboard / monitor switchbox (2 users to 1 PC)	HDDB15 female / 6-pin DIN female	6.0 x 4.5 x 2.6	1.3	19.95	17.95
149391CC	ATEN	CS-114A	4-way KVM switchbox (4 PCs to one user)	DB9 serial female / PS/2 keyboard & mouse (recommend P/N 204062CC for PS/2 cable see below) Includes manual and power supply	10.0 x 7.0 x 3.0	7.1	229.95	209.95
216063CC	—	KS102	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	PS/2 female for keyboard & mouse, HDDB15 female for monitor. Recommend gender changer PN 119301CC Pg 103 when ordering P/N 204062CC (6 ft. PS/2 cable) see below	4.3 x 3.0 x 1.2	0.6	47.99	43.65
310826CC	—	KVM2717 NEW	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	PS/2 female for keyboard & mouse, HDDB15 female for monitor. Requires 9.5VDC@500mA power supply - recommend P/N 100175CC	4.7 x 4.0 x 1.8	1.5	49.19	46.75
310842CC	—	2-PRT KVN-USB NEW	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	User connectors: PS/2 female for keyboard & mouse, HDDB15 female for monitor to PC connectors: 2 HDDB15 male for monitor, 2 USB-A male; 2.3.5mm jack	2.9 x 2.7 x 1.1	1.5	82.29	78.15
310834CC	—	KS104 NEW	4-way KVM switchbox (4 PC's to one user)	PS/2 female for keyboard & mouse, HDDB15 female for monitor; Recommend P/N 202180CC pg 162 for power supply	7.4 x 2.9 x 1.3	7.1	185.49	165.95

Serial-to-PC Switchbox

79126CC	—	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
183417CC	—	—	4-serial port switchbox	DB9 female (4-ports to 1PC)	6.1 x 4.0 x 2.2	1.3	19.95	17.95

Network-to-Server Switchboxes

180099CC	—	40R2-01604	4-server RJ-45 switchbox	4 RJ45 8P8C female (network devices to 4 servers)	8.0 x 6.1 x 2.2	2	\$14.95	\$13.49
----------	---	------------	--------------------------	--	-----------------	---	---------	---------

Fax/Modem/Telephone-to-PC Switchboxes

79142CC	—	40R1-01602	2-PC RJ-11 switchbox	RJ-11 6P6C (fax/modem/telephone to 2PCs)	6.0 x 4.8 x 2.5	1.2	\$9.95	\$8.95
---------	---	------------	----------------------	--	-----------------	-----	--------	--------

Parallel Printer-to-PC Switchboxes

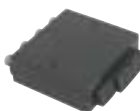
20095CC	—	40D3-17602	2-port switchbox	DB25 female (2PCs to 1 printer)	6.0 x 5.8 x 2.3	1.4	\$8.95	\$7.95
155512CC	—	CURTIS DS3	2-port switchbox	DB25 female (2PCs to 1 printer) includes 25' DB25 M-M cable	7.2 x 4.9 x 2.5	2.3	6.49	5.85
20124CC	—	40D3-17604	4-port switchbox	DB25 female (4PCs to 1 printer)	6.0 x 4.0 x 2.4	1.5	14.95	13.49
177412CC	ATEN	AS-451P	4-port auto switchbox	DB25 female (4PCs to 1 printer)		0.5	6.49	5.55
289211CC	—	25F6	6-port switchbox	DB25 female (6PCs to 1 printer)	7.6 x 6.0 x 2.5	2.2	23.15	20.85

USB-to-PC Switchboxes

310818CC	—	USB-2PORT NEW	2-way USB switchbox	1 USB-B female; 2 USB-A female	5.1 x 3.7 x 1.8	2.5	\$26.19	\$24.89
----------	---	----------------------	---------------------	--------------------------------	-----------------	-----	---------	---------

Coaxial Switch Box

- 3-way switch box, switches from a single input source to 3 outputs
- 60dB isolation – shielded housing
- 75Ω input-output
- 5-900MHz UHF/VHF/FM



Part No.	Description	1	10	25
228241CC	Coaxial switch box ...	\$5.95	\$5.59	\$5.35

PS/2 Cable

- Use with P/Ns 149391CC & 216063CC above



Part No.	Description	1	10
204062CC	6' PS/2 cable	\$16.95	\$15.29

75-Watt DC-AC Inverter

- 75 watts continuous power
- Peak surge power: 200W
- AC output voltage: 115VAC
- AC output frequency: 60Hz
- DC input voltage range: 10 – 15VDC
- Optimum efficiency: 90%
- Auto reset short circuit protection
- Overload protection/low battery alarm/ low battery shutdown • Single AC receptacle
- Size: 4.8"L x 1.6"W x 2.4"H



Part No	Description	Price
307791CC	75W inverter	\$26.95

150-Watt DC-AC Inverter

- 150 watts continuous power
- Peak surge power: 450W
- AC output volt.: 110V ±5VAC
- AC output frequency: 60Hz
- DC input voltage range: 10 – 15VDC
- Optimum efficiency: 90%
- Built-in thermal cooling fan • Single AC receptacle
- Auto reset short circuit protection
- Overload protection/low battery alarm/low battery shutdown • Size: 5.0"L x 1.9"W x 2.9"H



Part No	Description	Price
307811CC	150W inverter	\$34.95

DC-to-AC Inverters and DC-to-DC Converter

150 & 270-Watt DC-to-AC Inverters



277181CC

- Input voltage: 10-15VDC
- Output voltage: 110VAC @ 60Hz
- Peak power surge capable
- Overload & thermal protection
- Battery low shutdown • Weight: 1.3 lbs.

277181CC: • Size: 4.8"L x 2.9"W x 1.8"H

202016CC: • Size: 9.3"L x 4.1"W x 2.2"H

- Auto adapter and battery clips

Part No.	Description	1	10	25
277181CC	150W auto plug	\$28.95	\$27.49	\$26.15
202016CC	270W auto/battery clip ..	\$3.95	51.25	48.69

400-Watt DC-to-AC Inverter

Exclusive twin circuit design of dual high-output transformers provides 30% more power. MOSFET technology transistors with split design for cooler internal operating temperature. Outboard mounted replaceable dual 25AMP spade-type fuses. Dual grounded standard 110VAC receptacles. Includes: 12VDC cigarette light accessory plug, heavy-duty cable clamps, and spare 25A spade fuse.

- Input: 10-15VDC
- Max. continuous power: 400W
- Surge capacity (peak power): 800W
- 90% max. efficiency • No load draw: 0.3A
- Size: 6.4"L x 6.1"W x 2.1"H • Weight: 2.4 lbs.

Part No.	Product No.	1	10	25
249164CC	VEC031POB	\$57.49	\$54.65	\$51.89

DC-to-DC Power Converter

A high quality 1000mA regulated DC adapter with the ability to convert power from your cigarette lighter plug in 1.5V increments from 1.5V to 9.0V. You may choose from a full range of universal plugs (2.1mm, 2.5mm jack, 1/8" jack & 9V battery snaps) and output polarity (center + or -). Perfect for cassette players, CD players, radios, mini TV's and many other battery-run appliances.

- Two DC output cigarette lighter outlets
- Built-in 10A mini blade fuse on plug

Part No.	Description	1	10
218819CC	DC-to-DC converter	\$11.15	\$10.02
218801CC	10' extension cord	5.15	4.63

SALE

PC Power Supplies

150 to 400-Watt PC Power Supplies



201435CC



236929CC



202788CC



196189CC



172822CC

Part Number	Mfr.	Product Number	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Output Conn. (Mating Conn.)	Certification	Size (L" x W" x H")	Wt. (lbs.)	Pricing		
											1	10	25
201435CC	Xtreme Power	EPA400*	400	+3.3/33, +5/45, +12/15, +5VSB/1, -5/1, -12/1	115/230 @ 47-63 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV/CE	5.6 x 5.9 x 3.4	5.0	\$109.99	\$93.49	\$70.12
155539CC	American Media	JE2033†	300	+3.3/14, +5/30, +12/8, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX-13	UL/CSA/TUV	5.9 x 5.5 x 3.4	3.7	69.95	62.95	56.95
155811CC	—	JE5300	300	+3.3/14, +5/25, +12/12, +5VSB/0.8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.9 x 5.5 x 3.2	4.1	69.95	62.95	56.65
236929CC	Sunpower	SAP6300*	300	+3.3/25, +5/30, +12/12, -5/0.5, -12/1, +5VSB/1	115/230 @ 50-60 auto sense	3-prong AC receptacle with 6' power cord	ATX	UL/CUL/TUV/CE	5.5 x 5.9 x 3.4	4.1	54.95	49.45	44.49
308814CC	Powmax	LP6100D NEW	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switchable	3-prong AC receptacle w/ 6' power cord	ATX	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	54.95	52.20	49.59
152194CC	American Media	JE2031	250	+3.3/14, +5/25, +12/10, +5VSB/1.5, -5/0.3, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	6.0 x 5.5 x 3.4	3.5	49.95	44.99	40.49
312872CC	PC Power	STD-250 ATX NEW	250	+3.3/16, +5/25, +12/13, +5VSB/2, -5/0.3, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CULCE	6.0 x 5.6 x 3.4	3.5	17.65	16.79	15.95
152514CC	High Power	JE8250	250	+3.3/16, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	ATX	UL/CSA/TUV	5.5 x 5.9 x 3.4	3.3	49.95	42.45	31.85
196437CC	Hipro	HP235NLXAK	235	+3.3/14, +5/25, +12/8, +5VSB/0.1, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CC, pg 168)	ATX	UL/CSA/TUV/CE	5.5 x 5.9 x 3.2	3.2	24.99	22.49	19.19
202788CC	Enhance	SFX2015*	150	+3.3/7, +5/12, +12/5, +5VSB/0.8, -5/0.2, -12/0.3	115/240 @ 47-63 switchable	3-prong AC receptacle (P/N 38050CC, pg 168)	ATX	UL/CUL/TUV/CE	5.9 x 3.6 x 3.4	2.1	29.95	25.46	19.09
196189CC	Emacs	MPW-6150F*	150	+3.3/6, +5/10, +12/6, +5VSB/0.72, -5/0.2, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CC, pg 168)	ATX	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.5	34.95	31.45	27.85

132185CC	APS	JE1035	300	+3.3/28, +5/30, +12/10, -5/1, -12/1	110/220 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	IBM AT	UL/CSA/TUV	5.5 x 5.9 x 3.4	4.7	86.59	82.24	78.12
----------	-----	--------	-----	-------------------------------------	----------------------------	--	--------	------------	-----------------	-----	-------	-------	-------

233525CC	Sparkle Power	SPI-230G	230	+5/23, +12/9, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CC, pg 168)	AT	UL/CSA/TUV	5.9 x 5.5 x 3.4	2.0	24.95	22.45	20.19
200694CC	Compaq	DPS-200PB-38	200	+5/22, +12/7, -5/0.15, -12/0.15	110/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CC, pg 168)	AT	UL/CSA/TUV	5.5 x 5.9 x 3.5	2.8	9.99	8.99	8.09
172822CC	Mean Well	AA-230*	200	+5/20, +12/8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	AT	CSA/TUV/CE	6.0 x 4.6 x 3.4	2.6	49.95	44.96	40.46

* See photo above

† Pentium 4 rated



isobar®

Surge Protectors



139686CC



74544CC



19001CC

- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- IsoTel model has dual RJ11 jacks for complete modem/fax surge protection
- 4 & 6-outlet protectors: 6' cord; 8 and 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed • Lifetime warranty



Isobar Premium 19" Rack Mount Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
139686CC	IBAR12RM	750	12 outlet, 2 isolated filters	4.7	\$119.95	\$107.99

Isobar Premium Surge Protectors

18981CC	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4	\$49.95	\$44.95
74544CC	ISOBAR 6	2350	6 outlet, 3 isolated filters	2.7	\$54.95	\$49.95

Isobar Ultra Premium Surge Protector

19001CC	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	\$69.95	\$62.95
---------	-----------	------	------------------------------	-----	---------	---------



Standard Surge Protectors



168954CC

124337CC

Economical and effective spike and noise suppression with diagnostic LEDs.

- 168954CC: • \$5,000 Ultimate Lifetime Insurance
- Up to 27,000 amp spikes • Weight: 1.2 lbs.
- 124337CC: • \$35,000 Ultimate Lifetime Insurance
- Up to 42,000 amp spikes • Weight: 1.6 lbs.

Part No.	Product No.	Joules	1	10
168954CC	Striker 7	480	\$8.95	\$8.49
124337CC	Super 7	1402	17.95	15.95

6-Outlet Surge Protector

- Metal
- Max. spike current: 4500 amps, 50 joules
- 3-prong, 4' power cord
- Size: 12.3"L x 2.4"W x 1.3"H
- Weight: 1.5 lbs.



Part No.	Description	1	10	100
20175CC	Metal pwr strip	\$9.85	\$8.85	\$7.85

6-Outlet Surge Protector

- Standard 6-outlet surge suppressor
- Heavy-duty power cord (14AWG x 3)
- RESET/OFF switch with built-in 15A circuit breaker • Clamping voltage: 400V
- Max. surge dissipation: 900 joules
- Max. surge voltage: 6500V
- Max. spike current: 4500A
- Weight: 0.9 lbs.



Part No.	Description	1	10	100
216485CC	Surge suppressor	\$6.95	\$6.25	\$5.59

Compact Surge Protector for Notebook Computers

- Single 3-prong receptacle outlet with telephone modem protection
- 3-prong wall mount type
- 210 joule rating
- Surge LED indicator
- RFI noise blocker
- Size: 2.3"W x 1.3"D x 3.3"H



Includes: 4' RJ11 cord

Part No.	Description	1	10	25
206279CC	Outlet protector	\$6.95	\$6.25	\$5.59



Battery-Backed UPS System

- Protects your PC, fax/modem and all peripherals against all types of power problems
- Automatic system shutdown with free PowerAlert software for 500VA and 700VA
- Up to \$25,000 Ultimate Lifetime Insurance for connected equipment
- Up to 45 minutes runtime
- Weight: 16.0 lbs.
- 6-outlets, RJ11 for fax/modem protection



Part No.	Product No.	Description	Price
185130CC	IO500	500VA, 6 outlets	\$120.99



Integrated Wall Plate Surge Protectors

- \$5,000 surge equipment guarantee
- Safe-operation indicator lights
- 2 outlets
- Noise-filter
- UL/CUL approved
- Size: 6.9"W x 1.0"D x 10.8"H
- Weight: 0.7 lbs.



- 235002CC: Satellite/Cable TV protection
- Cable ready • 670 joules
- Includes: 6-foot coaxial cable
- 234991CC: Modem/Phone/Fax protection
- Internet ready • 410 joules
- Includes: 6-foot phone line cord

Part No.	Product No.	1	6	12
235002CC	SPC300	\$5.95	\$5.45	\$4.95
234991CC	SPT300	\$5.95	5.95	4.95

Power-Strip-Saver Single Outlet



Before 4 Outlets Blocked After Every Outlet is Usable

Get full use of your power strips and UPS outlets with our high quality power strip outlet saver, you can use all the outlets on your surge suppressors, UPS, and outlet strips. Just plug a bulky power adapter into this cable and free up your other outlets.

- Length: 1 ft. • Cord type: SVT

Part No.	Description	1	10	100
199777CC	AC power cord (black)	\$1.69	\$1.55	\$1.39
208338CC	AC power cord (beige)	1.69	1.45	1.09

"Y" Power Strip Saver Double Outlet

Get full use of your power strips and UPS outlets with the "Y" power strip saver. Plug those bulky adapters into these cables and plug the cables into the power strip. Need the extra adapter to be plugged into the power strip? Use the "Y" power strip saver to add an extra adapter.



Part No.	Description	1	10	100
208346CC	Power strip saver	\$2.89	\$2.75	\$2.59



16-Bit Active-Slot PC Extension Interface

Gives you three additional expansion slots.

- Compatible with 8 or 16-bit ISA cards
- Supports: MONO/EGA/ VGA/FDC/HDC, game and most I/O
- Control card installs inside your PC with four external slots
- Two mounting brackets to interface the unit via 37 and 62-pin cables
- Isolates system providing short circuit protection
- Can insert and remove cards while power is on
- Can be powered off the PC or externally using 6-pin connection (P/N 78318CC & P/N 78326CC, pg 95)
- Size: 9.5"L x 6.8"W x 1.0"H • Weight: 5.5 lbs.
- One-year warranty



SALE

System requirements: IBM PC/XT and higher comp.

Part No.	Description	1	10
131238CC	PC slot extender unit	\$169.95	\$176.15 \$160.15

LAN Tester Tool Kit For RJ11, RJ45, USB, and BNC

This tester offers simple and easy operation, compatible with RJ11, RJ45, USB, and BNC wiring system; you can verify the condition and status before or after installation within two seconds. The kit includes punchdown tools, crimping tool, and cable tester.



- Shield/ground test • Open/short wire test
- Connected wire display
- Crossover/wrong connection display
- Ethernet 10Base2/5, cable modem, CATV termination value detection

Part No.	Description	1	10
249252CC	LAN tester kit	\$99.95	\$89.95
198791CC	9V battery	2.85	2.55

Color Code Legend

New Sale Qty. Save Refurbished Closeout

10" B&W Security Monitor w/ Audio

- EIA format
- 9" viewable screen
- Resolution: 700 line
- Push down front panel for volume and power switch
- BNC jacks for audio/video input
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- Size: 9.3"W x 12"D x 9.1"H • Weight: 15 lbs.



Includes: Manual

Part No.	Description	1	10
253067CC	10" black & white monitor ..	\$109.05	\$89.95

5.6" Color TFT Monitor

NTSC Format

- TFT color LCD display
- 224 x 640 pixel display resolution
- Built-in 1 watt speaker
- Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
- Size: 6.1"W x 1.2"D x 4.8"H
- Weight: 2.6 lbs.



Includes: RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702CC	5.6" TFT color monitor	\$279.95	\$259.95

4" TFT LCD Monitor

NTSC Format

- TFT color LCD
- Resolution 234 x 383dpi
- Backlight: cold cathode fluorescent lamp
- Power source: 12VDC @ 400mA
- 5" long lead wire with 4 position Molex-type power connector
- Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
- Size: 4.7"L x 3.3"W x 1.3"H (unit) • Weight: 0.7 lbs.



Part No.	Description	1	10
172742CC	4" color LCD monitor	\$159.95	\$149.95

15" SVGA Color Monitor

- 0.28mm dot pitch
- Resolution: 1280 x 1024 @ 60Hz
- Digital panel control
- Input voltage: 100-240VAC, 50/60Hz (auto switching)
- Power, contrast, brightness, horizontal/vertical size position, recall & trapezoid front control
- HDDB15 male connector • UL/CSA/TUV approved
- Size: 14.5"W x 16"D x 14.6"H • Weight: 45 lbs.



↑ Refurbished

Requirements: IBM PC/XT or higher compatibles

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
153306CC	13.5" monitor viewable ↑	\$99.95	\$89.95

14" SVGA Color Monitor†

- 13" diagonal view ↑ Refurbished
- 0.28mm dot pitch
- HDDB15 male connector
- Power, contrast, brightness, horizontal/vertical position, recall & trapezoid knobs
- Resolution: 1152 x 864 @ 60Hz
- Input voltage: 100-240VAC @ 50-60Hz
- Size: 14.2"W x 14.6"D x 13.5"H • Weight: 25 lbs.



Requirements: IBM PC/XT or higher compatible

Includes: Power cable, tilt and swivel base

Part No.	Description	1	10
174537CC	13" monitor viewable ↑	\$69.99	\$64.99



AverKey Pro PC-to-TV Converter Box

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Size: 6.0"L x 4.0"W x 1.0"H • Weight: 2.2 lbs.
- Two-year warranty



System requirements: VGA-based PC, DOS 3.0 or higher, 640KB RAM or larger

Includes: Compact PC to video converter box, transformer, cables and manual

Part No.	Description	1	10
167193CC	Video signal pro	\$89.95	\$79.95

SALE



Pro-Video Editing Controller at Breakthrough Price

CommandPost is a pro-quality video-editing controller for your favorite video/multimedia applications at a new breakthrough special purchase price. Working with your favorite video/multimedia applications has never been easier or faster. Now the most popular controls such as jog wheel, fader, etc., from professional non-linear editors, DVEs and DDRs are brought to your desktop. Includes a free copy of VideoWave Version 4.0 video editing software plus templates for most popular video and graphics applications, including Videonics Effetto Pronto, Apple iMovie, Apple Final Cut Pro, Adobe Premiere, Adobe After Effects, and Digital Origin EditDV.

- Concentric jog/shuttle control • Centering joystick with pushbutton
- Internally illuminated for readability in darkened edit rooms
- Fader arm, 15 tactile push-button switches
- Supports standard or user-defined keysets
- Easy assignment of control sequences and keyset names

System requirements: USB 1.1 compliant PC: Windows® 98 or 2000, Pentium® 133 or higher, 5MB RAM minimum, 8MB minimum hard disk space. MAC: O.S. 8.6 or higher, Power PC, 10MB of RAM minimum, 5MB minimum hard disk space (MAC software available at www.Jameco.com.)

Part No.	Description	Size	Weight	1	10
220329CC	CommandPost	1.5"H x 10.0"W x 7.0"D	2.0 lbs.	\$26.95	\$19.99



SALE



XBOB-NC Video Text Module

XBOB integrates Decade's third-generation OSD technology into a convenient plug & play format. The command set is nearly identical to that of our popular BOB-3 modules (pg 235), and XBOB includes all of the optional circuitry described in the BOB-3 Application Guide. XBOB lets your PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable character patterns, XBOB supports pseudo-graphics and multiple languages. XBOB generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control XBOB through a fast RS-232 data link, much like a simple serial printer.



- Higher display density; 40x17 characters (680 max.)
- 254 ROM character patterns plus 63 user-definable RAM characters • Character size control
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)
- Faster & more reliable host communication
- Stand-alone operation, for simple source ID or fixed reticle applications
- Improved automatic video mode control

Part No.	Description	1	10
283768CC	XBOB video text module	\$199.95	\$189.95
237243CC	9VDC power supply	3.79	3.45
283776CC	Serial cable	9.95	8.95

For BOB-3 see page 235

ATEN SVGA Monitor Splitters

Duplicate a video signal from one source to monitors up to 210 feet away.

- Suitable for SVGA, VGA and multisync monitors
- 176866CC: 2-channel
- 1 HDB15 male connector from PC to box; 2 HDB15 female connectors from box to monitors
- Size: 6.6"L 3.3"W x 1.1"H • Weight: 1.4 lbs.
- 133866CC: 4-channel
- Slide switch for video signal gain control
- Daisy chainable • One-year warranty
- Size: 8.8"L x 6.0"W x 1.9"H • Weight: 3.6 lbs.

Includes: Power adapter and manual

Part No.	Description	1	10
176866CC	2-ch. monitor splitter	\$49.95	\$44.95
133866CC	4-ch. monitor splitter	59.95	53.95



176866CC



133866CC

Mouse Pad/USB Label Printer

Labeling envelopes, binders and files is one-click easy with this combination mouse pad and mini-printer. Just highlight the text in your document, or type labels directly and your 18mm label pops out, ready-to-use.

- Compatible with Windows® 98, 98SE and 2000 Professional PCs.



(Mouse not included)

Clearance

Part No.	Description	Price
235483CC	Mouse pad label printer	\$9.95

Black & White CCD Camera with 6" Monitor

Camera: EIA Format

- 512(H) x 492(V)
- 1/3" CCD image sensor
- 380 TV line res.
- 6 IR LED light for view in the dark application
- 15.734kHz horizontal synch. frequency
- 2:1 interlace scanning system
- 1/100,000 second electronic shutter
- 3.6mm lens with F2.0 • S/N ratio: 48dB
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p, 50Ω maximum • 0 lux at 2M
- BNC connector for video & RCA connector for audio
- Power supply: 12-15V @ 130mA • FOV: 92°
- Size: 2.2"W x 2.8"D x 2.1"H

Includes: Camera bracket

Monitor: EIA Format

- 6" 2-channel flat screen monochrome monitor
- Vertical hold, brightness and contrast adjustment knobs at rear of monitor
- Size: 6.7"W x 7.2"D x 5.2"H • Weight: 7.7 lbs.

Includes: 20M audio/video cable, manual and 15V @ 1A center positive power supply

Part No.	Description	1	10
170616CC	Camera w/ monitor	\$169.95	\$149.95

Mini Dome Color Camera

NTSC Format

- Perfect for ceilings
- 1/4" CCD image sensor
- 512(H) x 492(V)
- 330 horizontal line res.
- S/N ratio: 46dB
- 15.73kHz horizontal synch. frequency
- Scanning system: 2:1 interlace
- Up to 1/96,000 second electronic shutter
- 3.6mm lens with F2.0 • Video output: 1Vp-p, 75Ω
- Power supply: 12VDC @ 160mA (recommend P/N 162996CC, pg 161)
- 2 lux/F2.0 • FOV: 92° • Size: 3.5"Dia. x 2.3"H

Includes: Mounting hardware

Part No.	Description	1	10
171037CC	Mini-dome camera	\$145.95	\$129.95

Color Camera

- 1/3" Panasonic CCD image sensor
- Image size: 4.82mm (H) x 3.64mm (V)
- Furnished lens: 8mm
- More than 380TV lines horizontal resolution
- 15.734kHz synch. freq.
- Scanning system: 2:1 interlace
- S/N ratio: more than 46dB
- BNC connector for video • FOV: 42.6°
- Video output: 1Vp-p; 75Ω • 1.0 lux / F1.4
- Size: 4.0"L x 2.2"W x 2.0"H • Weight: 0.9 lbs.
- 512(H) x 492(V) NTSC signal format
- Auto iris: DC driver / video driver switchable

Requires: 12VDC @ 140mA power supply (recommend P/N 162996CC, pg 161)

Part No.	Description	1	10
171248CC	Color CCD camera	\$224.95	\$209.95 \$189.95

Night Vision Infrared Lighted Camera

EIA Format

- Adjustable camera lens
- Auto iris controlled
- Built-in voltage regulator
- Horizontal synch. frequency: 15.734kHz
- 6 infrared LEDs for night vision
- Scanning system: 2:1 interlace
- Video output: 1Vp-p; 75Ω
- Audio output: 2Vp-p max.
- FOV: 92°
- Matching conn.: RG59 BNC (P/N 71271CC, pg 105)
- Size: 2.9"L x 2.0"W x 2.0"H
- Lens: 3.6mm
- 380 TV line resolution
- 0.1 lux with F2.0
- Weight: 1.2 lbs.

Includes: 12VDC @ 500mA power supply and wall mounting bracket

Part No.	Description	1	10
150404CC	Infrared lighted camera	\$119.95	\$109.95

Black and White Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420TV lines
- Min. illumination: 0.1 lux
- Horizontal freq.: 15.734kHz
- 510(H) x 492(V) EIA signal format
- Vertical freq.: 60Hz
- Clock freq.: 19.069MHz
- Scanning system: 2:1 interlace • S/N ratio: 48dB
- Electronic shutter: 1/100,000 sec.
- Auto iris lens: DC drive / AES / video drive
- Video out.: 1Vp-p, 75Ω
- Audio out.: 2Vp-p max., 50Ω
- Backlight compensation and auto gain control selectable
- Power requirements: 12VDC@100mA; 24VAC
- Size: 4.5"L x 2.0"W x 2.0"H • Weight: 0.8 lbs.

Part No.	Description	1	10
245041CC	Black & white CCD camera	\$109.95	\$99.95 \$89.95

SONY® Color CCD Camera

Sony Chipset

- 1/4" Sony super HAD CCD sensor
- NTSC system with 510(H) x 492(V)
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Signal to noise ratio: >48dB • 330 TV lines
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system
- Video output: 1Vp-p; 75Ω

Requires: 12VDC @ 120mA power supply (recommend P/N 100095CC, pg 162)

Includes: Power/signal cable & mounting hardware

Part No.	Description	1	10
213436CC	Enclosed color camera	\$179.95	\$161.95

Mini Enclosed Color NTSC Camera

- 1/4" CCD Sensor
- 350 horizontal TV lines
- 1 lux/F2.0
- Electronic shutter: up to 1/120,000 sec.
- NTSC system w/ 512(H) x 492(V)
- Scanning system: 2:1 interlace
- Signal to noise ratio: 48dB
- Lens: 3.7mm/F2.0
- Video output: 1Vp-p, 75Ω • FOV: 92°
- Size: (enclosure) 1.3"L x 1.1"W x 0.9"D
- Weight: 0.3 lbs. • Two-year warranty

Requires: 9VDC – 12VDC @ 500mA power supply (recommend P/N 100853CC, pg 161)

Includes: BNC/Power cable and mounting hardware

Part No.	Description	1	10
215423CC	Mini enclosed camera	\$129.95	\$119.95

Color Interline Camera

Water Resistant with Adjustable Mounting Bracket

- EIA format
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- 5 lux sensitivity
- Video output: 1V p-p; 75Ω
- 6mm lens/F2.0
- S/N ratio: 40dB • FOV: 530
- Electronic shutter: 1/60 – 1/1,200 sec.
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply
- Size: 2.6"L x 0.9"Dia.

Includes: Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	1	10
185017CC	Color camera	\$99.95	\$89.95

Mini Wireless Color Camera

Now you can place a color video camera with sound almost anywhere! This super-small (1" x 3/4" by 7/8") 1/4 ounce, 3 Lux wireless camera and receiver combo delivers sharp, full-motion video images at 380 lines of resolution. With its 150-foot (unobstructed) range, light weight, and 9-volt battery power, you can now add video capability to a world of hobby applications.

Part No.	Description	Price
249025CC	Wireless color camera	\$89.95

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

2.4GHz Wireless Audio/Video Transmitter

- Frequency range: 2413MHz to 2470MHz
- Impedance: 50Ω
- Output power: 1 watt
- Video input: 1 Vp-p
- Audio input: 2 Vp-p
- Size: 2.4"L x 1.9"W x 1.4"H

Includes: 12VDC @ 1A wall adapter, RCA patch cable, antenna, and mounting hardware

179864CC: 179864CC 289852CC
For use with 2.4GHz cameras, transmitters, and receivers • Gain: 3dB; unidirectional

Part No.	Description	1	10
289852CC	Wireless audio/video tran. ...	\$199.95	\$179.95
179864CC	2.4GHz SMA RF antenna	\$45.95	15.15
179872CC	Wireless extension cable	10.99	9.89



4-Channel 2.4GHz Wireless Audio/Video Receiver and 10mW Transmitter

Make your camera wireless up to 492 feet!

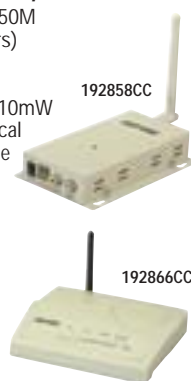
- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.
- RCA jacks for audio and video connectors

Receiver:

- Non-volatile memory protects system set-up from power loss
- Video loss detection and freeze channel
- Mute and alarm trigger port
- Size: (transmitter) 4.5"L x 3.2"W x 1.0"H
- Size: (receiver) 6.5"L x 5.5"W x 1.4"H
- Weight: 1.8 lbs.

Includes: RCA cable, 12VDC@500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description	1	10
192858CC	4-channel transmitter	\$94.45	\$85.05
192866CC	4-channel receiver	124.95	112.95



4-Channel 2.4GHz Wireless Audio/Video Transmitter System

CCIR, NTSC, PAL, EIA Format

- ISM Band: 2.413 – 2.470GHz
- Four selectable transmitter and receiver channels
- Antenna mode: dipole (omnidirectional)
- Impedance: 50Ω typical
- Video input: 1 Vp-p composite
- Audio input: 2Vp-p max.
- Weight: 3.2 lbs.

Includes: Two 9VDC @ 300mA with 1.3mm x 3.5mm center positive plug, and two 2.5mm male to RCA patch cables

Part No.	Description	1	10
265308CC	4-ch. wireless system	\$149.95	\$134.95



SONY® Black & White Low-Light Camera

Sony Chipset

- Signal to noise ratio: >48dB
- Requires 12V power source (not included)
- 6" wires with 4-pin Molex-type keyed connector
- EIA system 537(H) x 505(V)
- Temp. tolerance: -5°C to 40°C
- Composite output with 420 line resolution
- Shutter speed: 1/60 - 1/1000
- Video output: 1.0Vpp composite video/75Ω
- Size: 1.3"L x 1.3"W x 1.0"H
- Lens: 3.6mm
- FOV: 92.6°
- One-year warranty

Part No.	Description	1	10	25
150931CC	Camera board	\$71.79	\$64.79	\$58.15
159071CC	8mm lens 38.6"	17.95	17.10	16.25



Black & White Camera

EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal resolution: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- Video output: 1Vp-p, composite video 75Ω
- Power supply: 12VDC (recommend P/N 162996CC, pg 161)
- Size: 1.3"L x 1.3"W x 1.2"H
- S/N ratio: 46dB
- Power consumption: 110mA
- FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)

Part No.	Description	1	10
171029CC	Camera board	\$44.95	\$40.45



Color CMOS Camera Board

NTSC Format

- 1/3" image sensor
- 5.0 CMOS lux
- FOV: 92°
- 3.6mm lens/F2.0
- 330 TV lines
- Low power consumption
- Automatic exposure, gain and white balance
- Size: 1.0"L x 0.9"W x 1.1"H

Part No.	Description	1	10
171011CC	Camera board	\$77.65	\$69.89



DigiVue™ Digital Surveillance System

This new high-speed PCI video capture card comes with 4-channel video and 1-channel audio input that provides superb digital images from multiple cameras and remote surveillance. Add up to 4 cards per system controlling up to 16 cameras.

- Input signal: 4 video, 1 audio synchronized mono (with sound card)
- Display: 1/4/9/16/full screen
- Record and record: 60 frames per second (per card)
- Record mode: event/continuous/scheduled
- Enhanced MPEG4 format
- Time/date stamp
- Color adjust: adjustable light, contrast, hue, saturation
- Resolution: 160 x 120 up to 640 x 240
- Multitask: monitoring, recording, PTZ control, remote, back-up
- Motion detection: 16 zone x multi area for each camera
- Size: 4.9"L x 3.6"H
- Storage: HDD, VDRAM, CD-RW, DAT, ZIP
- Support internet monitoring: client software, explorer, or windows media player

Includes: CD-ROM software and drivers

Minimum system requirements: Pentium® III/800MHz, 128 MRAM, 32M AGP video card or above (recommend Pentium® 4/1.8GHz, 64M AGP video card)

Part No.	Product No.	1	4
262019CC	EDV-XVIEW4	\$237.55	\$225.95



Cable Assembly (75Ω RG59/U BNC – BNC)

Part No.	Length	1	10	50	100
262730CC	25'	\$10.45	\$10.25	\$9.95	\$9.50
262748CC	50'	17.05	16.25	15.45	14.69
262764CC	100'	30.39	28.89	27.45	25.99



EyeD Hamster USB Fingerprint Scanner

The EyeD Hamster fingerprint recognition tool for computers focuses on both security and convenience. This unit, which can be connected to the USB port of a computer and separate from the mouse, provides a simple, convenient and reliable security system instead of using passwords which are hard to remember or can be stolen. Applications such as computer networks, computer security, business IT solutions, E-commerce, banking and financial security and medical information systems are some of the environments where security plays an essential part.

- Assures computer security through fingerprint recognition
- Provide fast matching
- USB interface
- Compact in size, takes up less than 3" of desk space

Includes: Installation manual and CD-ROM drivers

System requirements: Windows® 95/98/NT4.0/2000/ME/XP, available USB port

Part No.	Description	1	5
262713CC	EyeD Hamster	\$115.95	\$104.35



EyeD USB OptiMouse with Biometric Recognition Software

With security and convenience of its finger print recognition module, this is the world's smartest mouse. No need to memorize passwords—the simple yet unique touch of your finger securely protects your PC, network, and the Internet all at once.

- Surface enhanced irregular reflection optical design
- Fingerprint extraction and verification technology
- Applications: PC and network security, Enterprise IT solution, secure files and folders within your PC, E-commerce

System requirements: Windows® 95/98/NT/2000/ME/XP, available USB port

Part No.	Description	1	10
262625CC	EyeD USB OptiMouse	\$115.95	\$110.19



We'll Send It Today!

Over 99% of our products are in stock!
Just place your order by 6PM EST
for same business day shipment.

Mount your video camera almost anywhere

As steady as a tripod, the Window Camera Mount lets you anchor that video camera to any glass surface at any height.



New Lower Prices

Mounts easily to your car window

Mount your video or CCTV camera on any window or other non-porous surface, and capture what you've never been able to before. This heavy-duty metal mounting bracket attaches securely to any glass surface with a strong lever-activated 3.25" neoprene suction cup. Mount your camera onto the tripod-style screw. Adjust to any position, and you're ready to shoot hands-free. It's perfect for temporary surveillance of your business or home. For cameras up to 3 lbs.

Part No.	Description	1	5
222746CC	CCTV camera window mount	\$39.95	\$29.87

Mini Indoor Pan & Tilt Mechanism Continuous Pan

- Automatic scanning: 0° – 355° angular travel; pan clockwise and counter-clockwise
- Manual tilt: 0° - 90°
- Pan speed: 5"/sec.
- Maximum load: 4.4 lbs.
- Power consumption: 1 watt
- Size: 2.5"Dia. x 2.4"H
- Warranty: 2 years continuous use • Weight: 0.4 lbs.



Camera not included

Includes: 24V @ 150mA power supply, wall mount bracket and mounting hardware

Part No.	Description	1	10
215407CC	Mini pan/tilt	\$49.95	\$44.95

Outdoor Metal Camera Enclosures

- Plate glass: 3mm thick
- Outdoor use
- 170931CC: without heater
- Clear window area: 2.5"W x 2.3"H
- Max. camera size: 4.0"L x 2.4"W x 2.4"H
- Size: 16.0"L x 4.9"W x 4.9"H • Weight: 2.8 lbs.
- 170940CC: w/ heater (keeps optics from fogging)
- Clear window area: 3.5"W x 3.1"H
- Max. camera size: 6.5"L x 3.2"W x 3.2"H
- Size: 11.0"L x 3.6"W x 3.6"H • Weight: 6.8 lbs.



Part No.	Description	1	10
170931CC	Camera housing	\$28.45	\$26.55
170940CC	Camera housing w/ heater	62.95	59.89

Indoor Metal Camera Enclosure

- Clear window area: 2.2"W x 1.8"H
- Maximum camera size: 7.1"L x 2.6"W x 2.4"H
- Overall size: 11.7"L x 3.1"W x 2.7"H • Weight: 1.5 lbs.

New



Part No.	Description	1	10
310691CC	Camera Housing NEW	\$27.49	\$26.15

Camera Mounting Bracket

- Aluminum construction (white coated)
- Maximum load: 6.5lbs.
- Over all height: 5.1"
- Base diameter: 1.8"
- 360 degree tilt swivel
- 120 degree tilt angle
- Base mounted w/ 3 screws (included)



Part No.	Description	1	10
311191CC	15-B009 NEW	\$6.65	\$6.19

Mounting Brackets for Enclosed Camera

- Material: plastic
- Base mounted w/ 3 screws
- Swivel angle: 360°
- Tilt angle: 90°
- For use w/ enclosed cameras (P/N 150404CC, pg 189)



Part No.	Max Load (lbs.)	Ht. (in.)	1	10
171002CC	11 lbs.	6.4	\$4.69	\$4.08
170982CC	6.6 lbs	2.0	\$5.49	\$4.12

Monitor/TV Wall Mount Bracket

- 95° swivel
- Assembly required
- Requires unit base to be mounted securely to wall stud
- Wall mount screws not included
- Supports up to 66 lbs. • Weight: 9.0 lbs.



Part No.	Description	1	10
181817CC	12"-18" TV wall mount	\$26.95	\$24.25

Mini Alarm Siren

- Sound pressure: 108dB
- Output frequency: 3000Hz
- Rated: 2-12VDC @ 300mA
- Adjustable mounting plate
- 16" color coded connector wires, tinned
- Size: 2.8"Dia. x 2.5"L



Part No.	Description	1	10	50
148152CC	Alarm siren	\$8.95	\$7.99	\$6.35

Audio/Video Adapters

CAT 5 UTP

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Supports both NTSC or PAL video signals
- Built-in impedance matching device and filter for video and audio signal transmission
- Use with existing premises wiring and wall jacks for easy and cost effective installation
- Video transmission distance: 1000' color/2000' B/W
- 210471CC/311124CC: Signal pair: video (BNC), CAT pair 1 (RJ45)
- 220880CC: Signal pairs: video (BNC), CAT pair 4 (RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)

New Lower Prices



Part No.	Connector Type	1	10
210471CC	BNC/RJ45	\$29.95	\$28.45
311124CC	BNC/RJ45 NEW	19.35	18.35
220880CC	BNC/RCA/RJ45	42.95	32.21

SMK RF Modulator

- Output frequency: NTSC Ch. 3/4, switch selectable
- 12VDC RF modulator
- Operating voltage: 12V@ 50mA max.
- Video modulation: 1.0V p-p
- RF output impedance: 75Ω (F type connector)
- Audio FM deviation: 1.4V p-p
- PC connections: solder tab connectors
- Size: 1.7"L x 1.7"W x 0.7"H
- Manufacturer No.: WMN2144-01



SALE

Part No.	Description	1	5	10
141639CC	RF modulator	\$2.49	\$2.29	\$2.09

Solar Outdoor Security Light

Dark spots around your business, house or neighborhood are vulnerable to vandalism or burglary. To protect your property, equip it with our new outdoor security lights and motion sensors. All you need are simple tools to mount the unit to the wall. No complicated wiring or electrician needed. The built-in batteries are rechargeable by sun-light, so if the main power goes out you still have security lighting. The solar panel, which has a 12' cord, can be positioned for optimum light exposure.



- Lights up to 60 times on a single charge
- Charges by day, lights by night
- Complete with built-in motion detector, rechargeable battery and bright halogen light
- Easy to install • Weight: 7.1 lbs.

Part No.	Description	1	10
219580CC	Security light	\$71.95	\$64.75

Lower Your Cost – Spend More!

When you're considering the cost of a security solution, be sure to look beyond the price tag of the components. For instance, our Solar Outdoor Security Light above might seem extremely costly versus a regular light fixture at your local hardware store. But if you need to bring out an electrician, the "cheap" solution is much more expensive.

Likewise, when installing video equipment, consider the cost of both the equipment and the installation. Wireless cameras and monitors may seem costly compared to their hardwired brethren, but in a new installation, the job may be completed for less cost using the more expensive equipment.

Practical Practices
Money Saving Tips for the Engineer

Jameco's Low-Price Guarantee

Happen to find a like product at a lower print-advertised price? We'll beat that price by 10%!

See www.Jameco.com for accuracy and complete specifications

Color Code Legend
New Sale Qty. Save

New Lower Prices
Marked in Orange

JAMECO
BenchPro
✓ Professional Grade
✓ Consistent Quality
✓ Value Priced
✓ Backed by Jameco

See www.Jameco.com for accuracy and complete specifications

MASTECH
Mastech M300
• 2000 count
• 6 functions
• Extremely low cost



Sizes shown
are for relative
comparisons.

Pocket
Sized

P/N 220812CC
\$9.79

MASTECH
Mastech M830B
• 2000 count
• 6 functions
• Extremely low cost



P/N 220855CC
\$9.95

JAMECO
Jameco JE110
• 2000 count
• 6 functions
• Pocket size with
100µV resolution



Pocket
Sized

P/N 119212CC
\$19.95

JAMECO **BenchPro**
BP-1562
• 2000 count
• 6 functions

NEW



A Jameco
EXCLUSIVE

P/N 318781CC
\$9.95

MASTECH
Mastech MAS830L
• 2000 count
• 7 functions
• Continuity test



P/N 220759CC
\$13.95

MASTECH
Mastech MAS838
• 2000 count
• 8 functions
• Temperature



P/N 220741CC
\$22.95

MASTECH
Mastech M3900
• 2000 count
• 8 functions
• AC current



P/N 220821CC
\$28.95

JAMECO **BenchPro**
BP-1206
• 2000 count
• 8 functions
• Auto-zero

NEW



A Jameco
EXCLUSIVE

P/N 27116CC
\$39.95

EXTech
Exttech MV110
• 2000 count
• 8 functions
• Tilttable display



P/N 197958CC
\$36.95

METEX
Metex M3800
• 2000 count
• 8 functions
• Auto-zero



P/N 27115CC
\$39.95

SALE

SALE

SALE				Basic Measurement Functions												Test Functions				Special Functions				SALE				
Jameco Part No.	Manufacturer No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing		
														°C	°F											1	5	
220812CC	Mastech M300	2000	6	1mV	2 - 500	200 - 500	200mA	—	2k - 2M	—	—	↔	—	—	—	✓		✓						4.7 x 2.7 x 0.8	220812CC	\$9.79	\$8.85	
220855CC	Mastech M830B	2000	6	100µV	200m - 1000	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓			✓				5.4 x 2.7 x 1.2	220855CC	9.95	9.45	
119212CC	Jameco JE110	2000	6	100µV	200m - 1000	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓			✓				4.8 x 2.6 x 1.0	119212CC	19.95	17.95	
318781CC	BenchPro BP-1562 NEW	2000	6	100µV	200m - 600	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓			✓				5.4 x 2.7 x 1.2	318781CC	9.95	9.45	
220759CC	Mastech MAS830L	2000	7	100µV	200m - 600	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	✓		✓	✓					5.7 x 3.0 x 1.4	220759CC	13.95	13.24	
220741CC	Mastech MAS838	2000	8	100µV	200m - 600	200 - 600	2m - 10	—	200 - 2M	—	—		—	-20 to 1000	—	✓		✓	✓					5.7 x 3.0 x 1.4	220741CC	22.95	21.79	
220821CC	Mastech M3900	2000	8	100µV	200m - 1000	200m - 700	20µ - 10	20µ - 10	200 - 20M	—	—		—	—	—	✓		✓	✓					6.8 x 3.4 x 1.3	220821CC	28.95	27.49	
27116CC	BenchPro BP-1206 NEW	2000	8	100µV	200m - 1000	200m - 700	20µ - 10	20µ - 10	200 - 20M	—	—		—	—	—	✓		✓	✓					6.8 x 3.5 x 1.4	27116CC	39.95	35.95	
197958CC	Exttech MV110	2000	8	100µV	200m - 1000	200m - 750	20µ - 10	20µ - 10	200 - 200M	—	—		—	—	—	✓		✓	✓					7.3 x 3.5 x 1.3	197958CC	36.95	35.19	
27115CC	Metex M3800	2000	8	100µV	200m - 1000	200m - 700	20µ - 20	20µ - 20	200 - 20M	—	—	↔	—	—	—	✓		✓	✓					6.8 x 3.5 x 1.4	27115CC	39.95	35.95	
147096CC	BelMerit DX460L	2000	9	100µV	200m - 1000	200m - 750	200µ - 10	200µ - 10	200 - 20M	2n - 2000µ	20m - 20		2k - 20M	—	—	✓	✓	✓	✓					8.0 x 4.0 x 1.5	147096CC	94.95	90.25	
220775CC	Mastech MY64	2000	11	100µV	200m - 1000	200m - 700	2m - 10	2m - 10	200 - 200M	2n - 20µ	—		2k - 20k	-20 to 1000	—	✓		✓	✓					7.4 x 3.6 x 1.3	220775CC	38.79	34.91	
177480CC	AEEC 2890	2000	11	100µV	200m - 1000	2 - 700	2m - 10	200m - 10	200 - 20M	2n - 20µ	—		20k	-20 to 1000	—	✓		✓	✓					8.0 x 4.0 x 2.0	177480CC	52.49	47.24	
182035CC	Fluke 73-III	3200	9	100µV	320m - 600	320m - 600	320m - 10	320m - 10	320 - 32M	—	—		—	—	—	✓		✓	✓	✓	✓			6.6 x 3.0 x 1.1	182035CC	158.95	150.99	
220767CC	Mastech MY68	3260	12	100µV	326m - 1000	3.26 - 700	326µ - 10	326µ - 10	326 - 32.6M	326n - 32.6µ	—		32.6k - 150k	—	—	✓		✓	✓		✓	✓		7.4 x 3.6 x 1.3	220767CC	35.95	32.36	
216514CC	Metex ME-31	4000	10	100µV	400m - 1000	400m - 750	4m - 20	4m - 20	400 - 4M	—	—	↔	—	—	—	✓		✓		✓	✓			7.3 x 3.3 x 1.5	216514CC	56.95	54.15	
211650CC	Exttech MN26	4000	11	100µV	400m - 600	400m - 600	400µ - 10	400µ - 10	400 - 40M	4n - 200µ	—		↔	10 - 10M	0 to 760	0 to 1400	✓		✓		✓		✓		4.8 x 2.4 x 1.6	211650CC	39.95	37.95
117373CC	BenchPro BP-1949 NEW	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—			5 - 50k	-20 to 1000	—	✓		✓		✓	✓			7.7 x 3.6 x 1.6	117373CC	99.95	94.95
137462CC	BenchPro BP-1737 NEW	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—			5 - 50k	-20 to 1000	—	✓		✓		✓	✓	✓		7.7 x 3.6 x 1.6	137462CC	119.95	113.95
221997CC	Metex M3270D	4000	12	100µV	400m - 1000	4 - 750	400µ - 20	400µ - 20	400 - 40M	4n - 400µ	—		4k - 4M	—	—	✓		✓	✓	✓	✓			7.1 x 3.3 x 1.3	221997CC	79.95	75.95	

DMMs continued on pages 194 – 195.

DMMs continued on pages 194 – 195.

BelMERIT
BelMerit DX460L
• 2000 count
• 9 functions
• Inductance
• Frequency



P/N 147096CC
\$94.95

MASTECH
Mastech MY64
• 2000 count
• 11 functions
• Temperature
• Frequency



P/N 220775CC
\$38.79

AEEC
AEEC 2890
• 2000 count
• 11 functions
• Temperature
• Frequency
• Tilttable display



P/N 177480CC
\$52.49

FLUKE
Fluke 73-III
• 3200 count
• 9 functions
• Autorange
• Frequency
• Analog bargraph



P/N 182035CC
\$158.95

MASTECH
Mastech MY68
• 3260 count
• 12 functions
• Autorange
• Analog bargraph



P/N 220767CC
\$35.95

METEX
Metex ME-31
• 4000 count
• 10 functions/RS232
• Autorange
• Analog bargraph



P/N 216514CC
\$56.95

EXTech
Exttech MN26
• 4000 count
• 11 functions
• Autorange
• Temperature
• Frequency



Pocket
Sized

P/N 211650CC
\$39.95

JAMECO **BenchPro**
BP-1949
• 4000 count
• 12 functions/RS-232
• Autorange
• Temperature
• Frequency



P/N 117373CC
\$99.95

JAMECO **BenchPro**
BP-1737
• 4000 count
• 12 functions/RS-232
• Autorange
• Temperature
• Frequency



P/N 137462CC
\$119.95

METEX
Metex M3270D
• 4000 count
• 12 functions
• Autorange
• Frequency
• Dual display



P/N 221997CC
\$79.95

See www.Jameco.com for accuracy and complete specifications

JAMECO
BenchPro

✓ Professional Grade
✓ Consistent Quality
✓ Value Priced
✓ Backed by Jameco

Color Code Legend

New Sale Qty Save Closeout

New Lower Prices
Marked in Orange

See www.Jameco.com for accuracy and complete specifications

- METEX®**
Metex M3850D
- 4000 count
 - 14 functions/RS-232
 - Autorange
 - Temperature
 - Frequency



P/N 117372CC
\$104.95

Sizes shown
are for relative
comparisons.

- METEX®**
Metex M3890D
- 4000 count
 - 15 functions/USB
 - Autorange
 - Temperature
 - Frequency



P/N 215589CC
\$99.95

Triple
Display

- METEX®**
Metex M3860D
- 4000 count
 - 16 functions/RS232
 - Autorange
 - Temperature
 - Frequency



P/N 137461CC
\$149.95

True
RMS
Dual
Display

- FLUKE**
Fluke 110
- 6000 count
 - 10 functions
 - Autorange
 - Min/Max/Avg



P/N 190967CC
\$108.95

P/N 190975CC
\$138.95

P/N 185527CC
\$148.95

True
RMS

- Fluke 111**
- 6000 count
 - 12 functions
 - Autorange
 - Current

- Fluke 112**
- 6000 count
 - 12 functions
 - Autorange
 - Backlit display
 - Current

- FLUKE**
Fluke 175
- 6000 count
 - 12 functions
 - Autorange
 - Frequency



P/N 192655CC
\$188.95

True
RMS

- FLUKE**
Fluke 177
- 6000 count
 - 12 functions
 - Autorange
 - Frequency



P/N 192663CC
\$208.95

True
RMS

- FLUKE**
Fluke 179
- 6000 count
 - 13 functions
 - Autorange
 - Temperature
 - Frequency



P/N 185535CC
\$218.95

True
RMS

- WAVETEK®
Meterman™**
Wavetek/MM 37XR
- 10,000 count
 - 14 functions
 - Inductance
 - Autorange
 - dB display



P/N 222527CC
\$129.49

True
RMS

- WAVETEK®
Meterman™**
Wavetek/MM 38XR
- 10,000 count
 - 14 functions/RS232
 - Autorange
 - Temperature
 - Frequency



P/N 222543CC
\$149.49

True
RMS

- MASTECH**
Mastech MY65
- 20,000 count
 - 8 functions
 - Capacitance



P/N 136590CC
\$73.49

Sizes shown
are for relative
comparisons.

DMMs continued from pages 192 – 193.

DMMs continued from pages 192 – 193.				Basic Measurement Functions												Test Functions				Special Functions				DMMs continued from pages 192 – 193.			
Jameco Part No.	Manufacturer No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing	
														°C	°F											1	5
117372CC	Metex M3850D	4000	14	100µV	400m - 1000	400m - 750	400µ - 20	400µ - 20	400 - 40M	4n - 400µ	—	↔	4k - 40M	-40 to 1200	—	✓		✓	✓	✓	✓	✓	7.2 x 3.3 x 1.8	117372CC	\$104.95	\$99.69	
215589CC	Metex M3890D	4000	15	100µV	400m - 1000	4 - 750	400µ - 20	400µ - 20	400 - 40M	4n - 200µ	—		4k - 4M	-40 to 1200	-40 to 2192	✓	✓	✓	✓	✓	✓	✓	7.8 x 3.5 x 1.7	215589CC	99.95	94.99	
137461CC	Metex M3860D	4000	16	100µV	400m - 1000	400m - 750	40m - 20	40m - 20	400 - 40M	4n - 400µ	40m - 400m		4k - 40M	-40 to 1200	—	✓	✓	✓	✓	✓	✓	✓	7.2 x 3.3 x 1.8	137461CC	149.95	134.99	
190967CC	Fluke 110	6000	10	1mV	6 - 600	6 - 600	—	—	600 - 40M	1000n - 10,000µ	—	↔	99.99 - 50k	—	—	✓		✓		✓	✓	✓	11.8 x 7.0 x 3.0	190967CC	108.95	103.49	
190975CC	Fluke 111	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000µ	—		99.99 - 50k	—	—	✓		✓		✓	✓	✓	11.8 x 7.0 x 3.0	190975CC	138.95	131.99	
185527CC	Fluke 112	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000µ	—		99.99 - 50k	—	—	✓		✓		✓	✓	✓	11.8 x 7.0 x 3.0	185527CC	148.95	141.95	
192655CC	Fluke 175*	6000	12	100µV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	—	↔	99.99 - 99.99k	—	—	✓		✓		✓	✓	✓	7.3 x 3.5 x 1.7	192655CC	188.95	179.49	
192663CC	Fluke 177*	6000	12	100µV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	—		99.99 - 99.99k	—	—	✓		✓		✓	✓	✓	7.3 x 3.5 x 1.7	192663CC	208.95	198.55	
185535CC	Fluke 179*	6000	13	100µV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999µ	—		99.99 - 99.99k	-40 to 400	-40 to 752	✓		✓		✓	✓	✓	7.3 x 3.5 x 1.7	185535CC	218.95	207.99	
222527CC	Wavetek/MM 37XR	10,000	14	100µV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400µ	4m - 40	↔	100 - 10M	—	—	✓	✓	✓		✓	✓	✓	7.8 x 3.6 x 2.4	222527CC	129.49	122.99	
222543CC	Wavetek/MM 38XR**	10,000	14	100µV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400µ	—		100 - 10M	-20 to 1300	-4 to 2372	✓		✓		✓	✓	✓	7.8 x 3.6 x 2.4	222543CC	149.49	141.99	
136590CC	Mastech MY65	20,000	8	10µV	200m - 1000	2 - 700	2m - 10	2m - 10	200 - 200M	200p - 20µ	—		—	—	—	—	✓		✓	✓	✓		7.4 x 3.6 x 1.2	136590CC	73.49	66.15	
318764CC	BenchPro BP-1415 NEW	20,000	8	10µV	200m - 1000	2 - 700	2m - 20	2m - 20	200 - 200M	2000p - 20µ	—	↔	20k	—	—	✓		✓	✓	✓			7.4 x 3.6 x 1.2	318764CC	73.49	66.15	
144872CC	Metex M4640A	20,000	12	10µV	200m - 1000	200m - 750	2m - 20	2m - 20	200 - 20M	20n - 200µ	—		20k - 2M	—	—	✓		✓	✓	✓	✓	✓	7.5 x 3.3 x 1.5	144872CC	132.95	126.35	
222375CC	Fluke 187*	50,000	11	1µV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50µ	—		500 - 999.99k	-200 to 1350	-328 to 2462	✓				✓			8.0 x 3.9 x 2.0	222375CC	379.99	359.99	
182043CC	Fluke 189*	50,000	13	1µV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50µ	—		500 - 999.99k	-200 to 1350	-328 to 2462	✓		✓		✓	✓	✓	8.0 x 3.9 x 2.0	182043CC	398.95	378.95	
214308CC	Fluke 80BK temperature probe for Fluke 175/177/179/187/189 (Jameco P/Ns 192655CC /192663CC /185535CC /222375CC /182043CC respectively)												Fluke 80BK temperature probe for Fluke 175/177/179/187/189 (Jameco P/Ns 192655CC /192663CC /185535CC /222375CC /182043CC respectively)												214308CC	\$19.95	\$18.95
222551CC	38SW software/cable for Wavetek/MM 38XR, P/N 222543CC												38SW software/cable for Wavetek/MM 38XR, P/N 222543CC												222551CC	19.49	18.49

* Temperature probe available — see bottom of chart

** RS-232 cable and software available — see bottom of chart

Pocket Analog Multimeter

- DC/AC voltage ranges: 0 – 500V
- DC current ranges: 0 – 250mA
- Resistance ranges: 0 – 1kΩ
- Size: 2.3"W x 1.2"D x 3.6"H

Includes: Insulated probes

Requires: 1.5V battery (recommend P/N 198707CC, pg 169)

Part No.	Description	1	10	50
206287CC	Pocket multimeter	\$8.95	\$7.61	\$5.71

High Voltage AC/DC Test Probe

- Maximum voltages: DC: 40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC: ±1.5%, AC: ±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Cable length: 39"
- Probe length: 14"
- Weight: 0.8 lbs.

Part No.	Description	1	10
132290CC	High volt. test probe	\$79.95	\$72.95

Digital LCR Meter

- 3½-digit display (0.5" digit height)
- Inductance ranges: 200µH to 200H
- Capacitance ranges: 200pF to 2000µF
- Resistance ranges: 2mΩ to 20MΩ
- Dissipation factor measurement
- Size: 3.3"W x 1.4"D x 6.7"H
- Weight: 1.1 lbs. • One-year warranty

Includes: Test leads and 9V battery

Part No.	Description	1	10	25
127538CC	LCR meter	\$149.95	\$134.95	\$121.46

How to Test Almost Everything Electronic

TAB Publishing Filled with easy-to-follow instructions on how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools, test equipment and troubleshooting techniques.

- Size: 7.4" x 9.3" • Weight: 1.3 lbs.

Part No.	Description	1	10
126199CC	How to Test Everything	\$17.95	\$16.15

EXTECH

Passive-Component Digital LCR Meter

- Measures L, C, and R with secondary parameter Q, D or R: both are displayed
- Inductance ranges: 2000.0uH to 2000.0H
- Capacitance ranges: 2000.0pF to 2000.0µF
- Resistance ranges: 20.000Ω to 20.000MΩ
- Selectable parallel or series equivalent circuit
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off

Includes: Test leads, alligator clips, 9V battery & holster

Part No.	Description	1	10
198678CC	LCR Meter	\$178.95	\$160.95
189237CC	9VDC @ 300mA adapter	4.25	3.59

30-Day Money-Back Guarantee

If you're not satisfied,
we'll take it back!

Details on page 246.

Oscilloscopes on pages 198 & 199



New Lower Prices
Marked in Orange

JAMECO®

Color Code Legend

New Sale Qty Save Closeout

2000-Count Benchtop Multimeter

- 8 functions, 33 ranges
- LCD display with 0.5" digit height
- Resolution: 100µV maximum
- DC voltage ranges: 200mV – 1000V (0.5% accuracy)
- AC voltage ranges: 200mV – 750V (1% accuracy)
- DC/AC current ranges: 200µA – 20A
- Resistance ranges: 200Ω – 20MΩ
- Capacitance ranges: 2nF – 20µF (2% accuracy)
- Diode and continuity test
- Input voltage: 110/220VAC @ 50-60Hz
- Size: 9.6"W x 11.0"D x 3.7"H • Weight: 4.4 lbs.



SALE

Includes: Power cord, operations manual & test leads

INSTEK

Part No.	Product No.	1	5
22927CC	GDM-8034	\$224.95 \$194.99	\$184.99

4000-Count True RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3 1/4-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- Resolution: 100µV maximum
- DC voltage ranges: 400mV – 1000V (0.3% accuracy)
- AC voltage ranges: 4V – 750V
- DC/AC current ranges: 4mA – 10A
- Resistance ranges: 400Ω – 40MΩ
- Capacitance ranges: 4nF – 40µF
- Frequency ranges: 100Hz – 600kHz
- Diode and continuity test • Delay hold mode
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/198-264VAC @ 50-60Hz
- Size: 9.0"W x 9.4"D x 3.3"H
- Weight: 3.3 lbs. • Two-year warranty



Protek

Includes: Manual, test leads, power adapter, 9V battery, RS-232 cable and software (98/ME/2000/XP compatible)

Part No.	Product No.	1	5
230586CC	B940	\$148.95	\$141.55

2000-Count Multimeter

The Fluke 8012A is a portable, bench-type, digital multimeter with 3 1/2 digit liquid crystal display (LCD).

- Resolution: 100µV maximum
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 700V
- DC/AC current ranges: 20µA – 2A
- Resistance ranges: 2Ω – 20MΩ (low range)
- Conductance ranges: 2µS – 200nS
- Size: 7.5"W x 9.6"D x 2.5"H • Weight: 2.6 lbs.



FLUKE

† Refurbished

Part No.	Product No.	1	5
203801CC	8012A†	\$199.95	\$179.95

20,000-Count True RMS Benchtop Multimeter

- 4 1/2-digit green LCD
- DC accuracy: 0.05%
- Full overload protection
- Resolution: 10µV max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 10A
- Resistance ranges: 200Ω – 20MΩ
- Frequency measurement up to 200kHz
- Continuity check with beeper
- Data hold, diode check, transistor h_{FE} measurement available
- Size: 9.9"L x 9.8"W x 3.6"H • Weight: 6.1 lbs.
- One-year manufacturer's warranty



EZ DIGITAL

Part No.	Product No.	1	10	25
132564CC	DM441	\$219.95	\$209.95	\$199.95

20,000-Count Benchtop Multimeter w/ RS-232, Analog Bar & 4 Displays

- Automatic polarity indicator
- 1-2 readings per second
- DC accuracy: 0.1% +5 digits
- 10 reading storage and compare
- Resolution: 10µV max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 20A
- Resistance ranges: 200Ω – 20MΩ
- Frequency ranges: 20kHz – 20MHz
- Min., max., average, relative functions
- Logic, diode, transistor h_{FE} and continuity test
- Size: 11.2"L x 8.2"W x 3.2"H • Weight: 7.5 lbs.



METEX

Includes: Manual, power cable, probes and software

Part No.	Product No.	1	10
166852CC	MXD4660A	\$249.95	\$224.95

50,000-Count Dual-Display True RMS Benchtop Multimeter

- 9 functions, 38 ranges
- Dual display indicates ACV and Hz, DCV (ACV) and dBm, or (DCV) and ACV ripple
- Auto range/manual operating modes
- AC or AC+DC true RMS
- RS-232 interface
- Resolution: 10uV maximum
- DC voltage ranges: 500mV – 1200V (0.03% accuracy)
- Diode and continuity test
- AC voltage (True RMS) ranges: 500mV – 1000V
- DC/AC current ranges: 500µA – 20A
- Resistance ranges: 500Ω – 20MΩ
- Capacitance ranges: 5nF – 50µF
- Frequency ranges: 10Hz – 200kHz
- Min., max., dBm, relative and hold functions
- Input voltage: 120/230V @ 50-60Hz
- Size: 9.9"W x 11.5"D x 3.6"H
- Weight: 5.7 lbs. • Two-year warranty



INSTEK

SALE

Includes: Power cord, operations manual & test leads

Part No.	Product No.	1	5
229235CC	GDM-8245	\$449.95 \$394.99	\$374.99

100,000-Count Dual-Display True RMS Benchtop Multimeter

The Fluke 45 delivers high performance and flexibility for manufacturing test, depot & field service, as well as R&D applications.



FLUKE

- 5-digit 100,000-count dual display allow the user to measure and view two different parameters of the same signal from one test connection
- dB measurements: 21 selectable reference impedances from 2 to 8000, and audio power from 2W to 16W • 2.5 reading per second
- Compare (Hi/Low/Pass) function for quick in-tolerance tests • Resolution: 1µV maximum
- 8 functions, 31 ranges
- Diode and continuity test
- DC voltage ranges: 100mV – 1000V
- AC voltage ranges (True RMS; AC-coupled): 100mV – 750V
- DC/AC current ranges: 10mA – 10A (0.05% DC current accuracy)
- Resistance ranges: 100Ω – 100MΩ
- Frequency ranges: 1kHz – 1MHz
- GPIO interface with battery
- Size: 8.5"W x 11.3"D x 3.7"H • Weight: 7.0 lbs.

Part No.	Product No.	1	5
229833CC	FLK-45-15	\$999.95	\$949.95

110-Watt Programmable Linear Power Supply with PC Interface

- 0-36V @ 0-3A
- Resolution: 1mV/1mA
- 10 memory settings
- Voltage/current regulation: ±0.03% load; ±0.02% line
- Ripple: ≤2mV_{RMS}
- Over-voltage and current protection
- Input voltage: 110/220VAC @ 50-60Hz
- Size: 8.3"W x 9.8"D x 3.5"H
- Weight: 13.2 lbs. • Two-year warranty



Protek

Includes: Manual, power cord, rack-mounting kit, RS-232 cable & software (98/2000/ME/XP compatible)

Part No.	Product No.	1	5
230578CC	P6000	\$298.95	\$283.95

200W Programmable Switching Power Supplies with PC Interface

- Voltage regulation: ≤10mV load; ≤0.05% line
- Current regulation: ≤5mA load; ≤0.05% line
- Output ON/OFF control
- Ripple: ≤20mV_{RMS}; ≤10mA_{RMS}
- Over-voltage/over-current/over-power/over-temperature protection
- Standard RS-232C 9-pin female interface
- Input voltage: 115/230VAC @ 50-60Hz
- Size: 8.9"W x 12.0"D x 3.9"H
- Weight: 8.8 lbs. • Two-year warranty



INSTEK

Includes: Power cord, operations manual & test leads

Part No.	Product No.	Description	1	5
229232CC	PSP-2010	0-20V @ 0-10A	\$349.95	\$332.45
229294CC	PSP-603	0-60V @ 0-3.5A	\$349.95	\$332.45

90-Watt Digital DC Power Supply

30VDC @ 3A

- Constant current and constant voltage operation
- Can be used for positive or negative source
- Overload protection circuit
- Input voltage: 100/240VAC @ 50-60Hz
- Size: 5.2"W x 5.6"H x 10.0"D
- Weight: 10.9 lbs.
- One-year warranty



EZ DIGITAL

Part No.	Product No.	1	10
121152CC	GP4303D	\$189.95	\$179.95

100-Watt Triple Output Digital and Analog DC Power Supplies

30VDC @ 3A

- Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 – 30V voltage and 0 – 3A current outputs
- Displays of both voltage and current
- Constant voltage or current
- Current limiting indicator
- Overload and short circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Size: 9.5"L x 6.0"W x 5.6"H • Weight: 10.0 lbs.



197991CC



197982CC

Part No.	Description	1	10
197991CC	Digital DC	\$198.95	\$178.95
197982CC	Analog DC	168.95	151.95

150-Watt Digital Power Supply

30VDC @ 5A

- Adjustable voltage/current outputs • 2A @ 250V fuse
- Constant voltage and current operation • Dual digital display
- LCD displays for both current and voltage
- Coarse/fine adjustment knobs for current and voltage
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Color-coded terminals for positive, negative and ground connections
- Size: 5.4"W x 10.7"D x 6.0"H
- Weight: 13.8 lbs. • One-year warranty



Part No.	Description	1	10	25
153242CC	30VDC @ 5A	\$234.95	\$211.49	\$190.35

150-Watt Power Supply

50VDC @ 3A

- Adjustable voltage/current outputs
- Constant voltage & current operation
- Color-coded terminals for ground, positive and negative terminals
- 3A @ 115V fuse
- Color-coded adjustment knobs for voltage, current and fine adjustment
- Input voltage: 110VAC @ 60Hz
- Color: dark gray • Weight: 12.3 lbs.
- Size: 9.0"L x 4.75"W x 7.5"H • One-year warranty



Part No.	Description	1	10	25
163723CC	50VDC @ 3A	\$143.95	\$136.75	\$129.89



30-Watt Digital Benchtop Power Supply

- Single output with adjustable 1.5VDC to 30VDC
- 1A fixed current output
- Large digit backlit display
- Overload and short-circuit protection
- Input voltage: 85-264VAC @ 47-63Hz

- Compact design
- Output terminals
- ON/OFF switch
- Size: 5.5"L x 5.2"W x 1.6"H
- Weight: 1.2 lbs.



Part No.	Product No.	Displays	Power (W)	1	10
301971CC	PSU130	Single digital	30	\$79.95	\$75.95



45W to 600W Benchtop Power Supplies

- Voltage and current adjustable
- Current restricted and short-circuit protection
- Input voltage: 110/220 ±10% VAC

Analog display power supplies

- Accuracy: 2.5%

Digital display power supplies

- Voltage accuracy: 1% + 2 digits
- Current accuracy: 1.5% + 2 digits



301920CC



207618CC



207706CC



211692CC

Single Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
301920CC	HY1503C	2-Analog	45	15/3	3.8 x 6.3 x 9.1	9	\$99.95	\$94.95
301866CC	HY3003D	2-Digital	90	30/3	5.4 x 6.2 x 11.5	10	\$179.95	\$170.95
207618CC	HY3005C	2-Analog	150	30/5	5.4 x 6.2 x 11.5	14	\$159.95	\$144.95
207626CC	HY3010C	2-Analog	300	30/10	10.4 x 6.5 x 14.4	31	\$299.95	\$269.95
207693CC	HY5002	2-Digital	100	50/2	5.4 x 6.2 x 11.5	13	\$189.95	\$170.95
301911CC	HY3005D	2-Digital	150	30/5	5.4 x 6.2 x 11.5	13	\$224.95	\$213.70
207706CC	HY5003	2-Digital	150	50/3	5.4 x 6.2 x 11.5	13	\$249.95	\$224.95
207600CC	HY5005	2-Digital	250	50/5	10.4 x 6.5 x 14.4	17	\$299.95	\$269.95
207634CC	HY3010	2-Digital	300	30/10	10.4 x 6.5 x 14.4	31	\$399.95	\$359.95
207685CC	HY3020	2-Digital	600	30/20	10.4 x 6.5 x 14.4	42	\$499.95	\$449.95

Multiple Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1	10
211721CC	HY3002-2	2-Digital	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	\$249.95	\$224.95
211705CC	HY3002D-2	4-Digital	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	\$269.95	\$242.95
211692CC	HY3003D-2	4-Digital	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	\$289.95	\$259.95
211730CC	HY3003-2	2-Digital	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	\$299.95	\$269.95
211713CC	HY3003-3	2-Digital	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	\$319.95	\$287.95
211684CC	HY3003D-3	4-Digital	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	\$329.95	\$296.95
301946CC	HY3005D	4-Digital	300	0-30/5; 0-30/5	10.4 x 6.5 x 14.4	26.5	\$349.95	\$332.45
301954CC	HY3005D-3	4-Digital	315	0-30/5; 0-30/5; 5/3	10.4 x 6.5 x 14.4	29	\$369.95	\$351.45
301962CC	HY5003-2	2-Digital	300	0-50/3; 0-50/3	10.4 x 6.5 x 14.4	26	\$339.95	\$322.95

150-Watt Linear Power Supply

15VDC @ 10A

- Output voltage: 2VDC to 15VDC
- Output current: 15A max.
- Constant voltage operation
- Color-coded terminals for positive and negative terminals, voltage adjustment knob
- Over-voltage, over-current, short-circuit protection
- Cigarette lighter output current plug
- LED indicator for power and warning
- Current and voltage panel meter
- Built-in fan • Input voltage: 110VAC @ 60Hz
- Size: 5.7"L x 6.2"W x 4.0"H • Weight: 12.0 lbs.



Part No.	Mfr. Cross Ref. No.	1	10	25
175265CC	DPS150A	\$149.95	\$134.95	\$129.95

225-Watt Analog Power Supply

15VDC @ 15A

- Output voltage: 9VDC to 15VDC
- Output current: 25A max. (22A continuous @ 13.8VDC)
- Constant voltage operation
- Over-voltage protection @ 16.5V
- Short-circuit protection @ 27.5A
- Color-coded adjustment knob and output terminals for voltage
- Cigarette lighter plug for current output
- Power and fan LED indicator • Built-in fan
- Voltage and current panel meter
- Input voltage: 110VAC/220VAC @ 47-63Hz (switchable)
- Size: 5.6"L x 6.2"W x 4.0"H • Weight: 3.8 lbs.



Part No.	Mfr. Cross Ref. No.	1	10	25
175257CC	SPS250A	\$159.95	\$143.95	\$129.56

Visit us on the web at
www.Jameco.com

250-Watt Analog Power Supply

50VDC @ 5A

- 5A @ 250V fuse
- Isolated ground
- Color-coded terminals for ground, positive, negative
- Color-coded adjustment knobs for voltage, current, and fine tuning
- Adjustable voltage/current outputs
- Input voltage: 110VAC @ 50-60Hz
- Constant voltage and current operation
- Color: dark gray • Weight: 13.8 lbs.
- Size: 4.9"L x 7.7"W x 6.7"H



Part No.	Mfr. Cross Ref. No.	1	10	25
175249CC	DPSS050	\$189.95	\$179.95	\$171.49

Handheld 5MHz Digital Oscilloscope w/ True RMS Multimeter

- 5MHz bandwidth; 25MS/s sampling rate
- Auto power off
- RS-232 PC interface
- 160 x 160 pixel graphical display with backlight
- Vertical sensitivity: 10mV – 200V per div. (14 div.)
- Single channel with 1MΩ impedance
- 4000-count dual display with analog bargraph
- Resolution: 100uV maximum
- DC voltage ranges: 400mV to 1000V
- AC voltage ranges: 400mV to 700V
- DC/AC current ranges: 400mA to 20A
- Resistance ranges: 400Ω to 40MΩ
- Capacitance ranges: 40nF to 100μF
- Frequency ranges: 1Hz to 5MHz
- DBm, diode and continuity test
- Max/Min/Average w/ sampling rate & graphical plot
- Size: 4.2"W x 2.2" D x 8.3"H • Weight: 1.8 lbs.



EXTECH

PC INTERFACE

Includes: Protective holster, built-in stand, Windows® 95–XP compatible software, RS-232 cable, 6 AA batteries, fuse, test leads, and alligator clips

Part No.	Product No.	1	5
245930CC	381285	\$398.95	\$378.95

Handheld 5MHz Oscilloscope with 4000-Count Digital Multimeter

- 128 x 128 pixel graphic STN LCD
- E/L backlight
- PC interface via RS-232
- Memory and recall for 4 values
- Temperature measurement
- Oscilloscope:**
 - DC-5MHz bandwidth; 20MS/sec. sampling rate; single channel
 - Vertical axis: 3 steps (±0.5/5/50 volts) with 4 divisions
 - Horizontal axis: 16 steps (800ns/div to 26.2ms/div) in 8 divisions
- Trigger: auto and internal mode, slope and 5 trigger level selectable
- Text display for peak to peak, min./max. voltage and frequency



221962CC
METEX®

Digital Multimeter:

- 3½-digit with 43 segment bargraph
- Auto ranging; triple display for related reading; data and range hold; auto/min/max hold and relative offset
- DC voltage ranges: 400mV – 1000V
- AC voltage ranges: 4V – 750V
- DC/AC current ranges: 400uA – 400mA
- Resistance ranges: 400Ω – 40MΩ
- Frequency ranges: 4kHz – 4MHz
- Temperature ranges: -40°C – +1200°C
- Capacitance ranges: 4nF – 400μF
- Diode and continuity
- Size (unit): 3.4"W x 1.5"D x 8.0"H
- Weight: 3.9 lbs.

Includes: Manual, power adapter and test leads

Part No.	Description	1	5
221962CC	MS-1280	\$349.95	\$332.95
221938CC	RS-232 cable & software	19.95	18.95
221946CC	Scope probe	24.95	23.69
221954CC	Holster	\$5.95 4.95	4.69

Detailed specifications for Test Equipment
www.Jameco.com

Handheld 20MHz Digital Oscilloscope & Multimeter

- 4-in-1: digital oscilloscope, DMM, frequency counter & logic analyzer
- **Oscilloscope:** 2-channel input, 5mV-2V/div; DC-20MHz(-3dB); 50ns - 0.5us/div; 20 MS/s sampling rate
- **Logic analyzer:** 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width
- **Digital multimeter:** 3½-digit (max. 3999 counts); 40 segment analog bargraph; AC/DC voltage 400mV-600V; AC current 40uA-400mA; DC current 400uA-400mA; resistance 400Ω-40MΩ; continuity & diode testing
- **Frequency counter:** 5Hz-20MHz; 5 digit max.; autoranging; AC/DC input coupling; ±10ppm accuracy; 35Vrms/42V-P/60VDC max. input
- **Oscilloscope probes:** Use P/N 22891CC or 216047CC, pg 200
- Battery required for portable use (see below)
- Size: 10.0"L x 5.0"W x 2.0"H
- Weight: 9.2 lbs. • One-year warranty



162430CC

Includes: Manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case

Part No.	Description	1	5
162430CC	20MHz digital scope	\$749.95	\$712.95
162974CC	Logic probe	59.95	53.95
163141CC	Rechargeable battery	45.95	41.49
162966CC	RS-232 cable & software	26.95	24.25
221946CC	Scope probe	24.95	23.69

Fluke 123 20MHz Industrial Scopemeter® with FlukeView Software

Digital Scope, 15-Function Digital Multimeter & Recorder

The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, and power systems. Automatically recognizes signal patterns and sets up correct triggering, timing, and amplitude for stable displays.

- **Recorder:** dual-channel TrendPlot™
- **Digital Scope:** dual-input 20MHz oscilloscope with 1.25GS/sec. repetitive sampling rate
- **Digital Multimeter:** dual-input 5000-count True RMS meter with ohms, capacitance & temperature
- Size: 4.5"W x 2.0"D x 9.1"H • Weight: 5.8 lbs.
- FlukeView Software (Version 3.04)**
 - Documenting: transfer screens, waveforms & data to your PC for printing or importing to other programs
 - Archiving: store and retrieve waveforms with text annotations and create your own library
 - Analysis: gather valuable data and enable cursor measurement, extend recording of up to four user-selected measurements, upload waveforms and use cursors for detailed measurements
 - Compatible with Windows® operation system



Part No.	Product No.	Price
203131CC	Fluke 123S (refurbished)	\$1,099.95

DMMs on Pages 192 – 196

FLUKE

MASTECH

EXTECH

WAVETEK®
Meterman®

METEX®

Fluke 190 Series 200MHz Scope-Meters w/ 5000-Count DMMs

Color and B/W

With up to 200MHz bandwidth, 2.5 GS/s real-time sampling and a deep memory of 27,500 points per input, they're ideal for engineers who need the full capabilities of a high-performance oscilloscope in a handheld, battery-powered instrument.



- Dual-input – 200 or 100MHz bandwidth
 - Up to 2.5 GS/s real-time sampling per input
 - Connect-and-View™ automatic triggering and a full range of manual trigger modes
 - Digital Persistence for analyzing complex dynamic waveforms like on an analog scope
 - Fast display update rate for seeing dynamic behavior instantaneously
 - Automatic capture and replay of 100 screens
 - 27,500 points per input record length using ScopeRecord mode • TrendPlot paperless chart recorder for trend analysis up to 22 days
 - Up to 1000V independently floating isolated inputs
 - Waveform reference for visual comparisons and automatic pass/fail testing of waveforms
 - Vpwm function for motor drive and frequency inverter applications
 - 1000 V CAT II and 600 V CAT III safety certified
 - Four-hour rechargeable NiMH battery pack
- 211220CC:** Includes FlukeView software
- Includes:** Test leads, probes and manual

Part No.	Product No.	1	5
222383CC	FLK-199C (200MHz) color ...	\$2,899.95	\$2,754.95
211220CC	FLK-199B/S (200MHz) †	1,999.95	1,818.81

† Refurbished

50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz–50MHz real-time; 1GHz repetitive
- Input impedance: 1MΩ/30pF
- Parallel Port Interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V (AC and DC)
- Power required: 9V to 10V @ 1000mA (recommend P/N 100888CC, pg 163)



- Oscilloscope:**
- Timebase: 20ns–100ms per division
 - Input sensitivity: 5mV–15V per division with auto step-function
 - Recording length: 4096 samples per channel
- Spectrum Analyzer:**
- Frequency range: 0 to 25MHz
- Transient Recorder:**
- Time scale: 20ms/div–2000s/div
 - Max. recording time: 9.4 hours/screen
 - Max. number of samples: 100/s

System requirements: IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

Includes: 2 test leads, PC parallel cable, manual and CD-ROM software

Part No.	Product No.	1	5
200184CC	PCS500AU	\$478.95	\$429.95

PC-MultiScope 20MHz 2-Channel Digital Oscilloscope

mission technology



Turn your PC into a digital storage oscilloscope for 1/2 the cost of a DSO!

- 100MHz sampling; dual channel
 - Chart recorder and FFT mode
 - 5mV to 5V per div.; 20MHz bandwidth; ext. trigger
 - 0-4MHz sine and square wave signal generator
 - Triple power supply: 5VDC @ 500mA and ±0-8VDC @ 250mA
 - Size: 4.3"L x 5.0"W x 1.5"H • Weight: 3.8 lbs.
- Includes:** Parallel port cable, AC adapter, alligator clip probe, Windows® 3.1/95/98 software

Part No.	Description	1	10
163230CC	PC-MultiScope 3	\$579.95	\$529.95

20MHz 2-Channel Analog Oscilloscope

EZ DIGITAL

Blue CRT for higher resolution!



- 6" rectangular high-resolution blue CRT with internal graticule & scale
 - Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
 - Horizontal deflection: 0.2μs/div to 0.2s/div in 19 calibrated steps, 1-2-5 sequence
 - Max. signal input voltage: 250V (DC and peak AC)
 - ADD function measures sum of two signals
 - Input voltage: 98-125VAC @ 1A, 198-225VAC @ 0.5A, 50-60Hz, 45W
 - Two-year manufacturer's warranty
 - Size: 16.4"L x 12.6"W x 5.3"H • Weight: 20.8 lbs.
- Includes:** Two (X1/X10) 40MHz probes, power cord, manual, and block diagram

Part No.	Product No.	1	5
136098CC	OS5020	\$399.95	\$385.95

20MHz 2-Channel Analog Oscilloscope with 1MHz Function Generator

- Basic specs same as OS5020 (above)
- Function generator**
- Frequency range: 0.1Hz to 1MHz (7 ranges)
 - Output waveforms: sine, triangle, square, TTL pulse
 - Output impedance: 50Ω
 - Output voltage: 14Vp-p
 - Size: 12.6"L x 12.6"W x 6.8"H • Weight: 23.8 lbs.
 - Two-year manufacturer's warranty
- Includes:** Two X1/X10 40MHz probes, power cord, manual, BNC to alligator, and cable



Part No.	Product No.	1	10
94650CC	OS5020G	\$529.95	\$499.95

20MHz 2-Channel Analog Oscilloscope with Built-in Component Checker

- 6" rectangular CRT with internal graticule
- Built-in component checker/tester for resistors, capacitors, coils, diodes
- Vertical sensitivity: 5mV/div to 20V/div in 12 calibrated steps (1-2-5 sequence)
- Input impedance: 1MΩ, 20pF
- Max. input (vertical amplifier): 300VDC or AC peak
- Horizontal sweep time: 0.2μs/div to 0.5s/div in 20 calibrated steps (1-2-5 sequence)
- Internal trigger sensitivity: 20Hz to 20MHz
- Size: 17"L x 14"W x 5.75"H • Weight: 15.5 lbs.



Protek

Includes: Two X1/X10 60MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
201857CC	P-3502C	\$394.95	\$375.19

20MHz 2-Channel Analog Oscilloscope with Alt-Mag and 1mV/div Sensitivity

- Large 6" CRT with internal graticule
 - Alt-Mag sweep for simultaneous displays of the main and X5 magnified trace
 - Auto-focus
 - Input voltage: 100V, 120V, 220V, 240V @ 50-60Hz (selectable)
 - Size: 14.8"L x 13.4"W x 5.5"H • Weight: 24 lbs.
- Vertical Amplifier**
- Sensitivity – 1mV/div to 1V/div (X5 Mag); 5mV/div to 5V/div in 10 steps (1-2-5 seq.)
 - Bandwidth: (-3dB): DC to 20MHz
 - Input impedance: 1M ohms, 25pF
 - Maximum input voltage: 400V (DC or AC peak)
- Horizontal Sweep**
- Sweep time: 0.1μs/div to 0.2S/div in 20 steps (1-2-5 seq); X5 mag: 20ns/div to 40ms/div
- Triggering**
- Sensitivity: Internal – DC to 2MHz: 2 divisions; 2MHz to 20MHz: 3 divisions



Protek

Includes: X1 and X10 probes, power cord & manual

Part No.	Product No.	1	5
220679CC	PROTEK 6502	\$429.95	\$408.45

100MHz 2-Channel Analog Oscilloscope

- 2-channel dual trace
 - Delay line
 - Auto focusing according to intensity
 - Size: 16.9"L x 12.6"W x 5.5"H
 - Weight: 22.8 lbs.
 - Two-year warranty
- Includes:** Two (X1/X10) 100MHz probes, power cord, and operations manual



EZ DIGITAL

Part No.	Product No.	1	5
121179CC	OS5100	\$999.95	\$949.95

Detailed specifications for Test Equipment
www.Jameco.com

100MHz Delayed Sweep Analog Oscilloscope w/ Cursor Readout

2 Channel

- Bandwidth (-3dB): DC-100MHz
- Cursor readout with 7 measurements
- Time base auto range
- 10 save-and-recall memories
- Z-axis modulation input
- TV synchronization
- Vertical sensitivity: 2mV – 5V/div, 11 steps in 1-2-5 sequence; 2mV/div max. to 20MHz
- Max. input voltage: 400V DC+AC peak @ 1kHz or less
- Input impedance: 1MΩ ±2%, 25pF
- Main sweep time (A): 50ns – 0.5s/div
- Delay sweep time (B): 50ns – 50ms/div
- 6" continuously adjustable rectangular CRT with internal graticule, 8x10 div. • Delay time: 1μs – 5s
- Input voltage: 100/120/230VAC @ 50-60Hz (switchable) • Size: 12.2"W x 17.9"D x 5.9"H
- Weight: 19.8 lbs. • Two-year warranty



INSTEK

SALE

Includes: BNC cable, power cord & operations manual

Part No.	Product No.	1	5
229278CC	GOS-6103	\$1,251.55 \$1,124.95	\$1,022.69

100MHz Delayed Sweep Analog Oscilloscope w/ Frequency Counter

2 Channel, 4 Trace

- DC to 100MHz bandwidth
- 6" rectangular CRT with internal graticule
- Auto set, readout cursor, delay sweep, hold-off functions
- Z-axis intensity modulation: DC to 2MHz bandwidth; 30VDC + peak AC max. input voltage
- Vertical deflection factor: 2mV/div to 5V/div
- Horizontal time base A/B deflection: 5ns/div to 0.5s/div in 22 calibrated steps
- Input coupling: AC, GND, DC
- Rise time: 3.5ns or less • Weight: 17.6 lbs.



EZ DIGITAL

Includes: Two X1/X10 100MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
190932CC	OS5100RB	\$1,199.95	\$1,139.95

Modular Oscilloscope Probes



22891CC

216047CC

236777CC

- Hook and pointed probes
- 216047CC/236777CC: with IC test ground cover and spring ground contact • Length: 5'
- Alligator clip ground wire • BNC male connector
- Maximum input voltage: 600V

Part No.	Bandwidth (±3dB)		Impedance (R/C) *	
	Attenuation		Attenuation	
	x1	x10	x1	x10
22891CC	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047CC	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF
236777CC	6MHz	250MHz	1MΩ/47pF	10MΩ/14pF

* with 20pF oscilloscope input

Part No.	Mfr. Cross Ref. No.	1	10	50
22891CC	LF101E	\$24.95	\$22.46	\$20.21
216047CC	HF-9100	34.95	29.95	26.95
236777CC	HP-9250	45.95	43.39	37.25

Oscilloscope Probes

Designed for use with Tektronix and Hewlett Packard oscilloscopes.

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1MΩ (x1); 15pF, 10MΩ (x10)
- Low-resistance gold contacts
- Cord length: 5'
- 174473CC: 7-piece kit
- 212214CC/212257CC: 25-piece kit



174473CC



212214CC

Part No.	Product No.	1	10
174473CC	4901-02 (150MHz)	\$49.95	\$44.99
212214CC	4915 (150MHz)	149.99	142.49
212257CC	4915A (250MHz)	149.95	142.49

Pomona® 100MHz Probe Set

- Complete accessory kit included
- Attenuation: x1/x10
- Bandwidth: 15/100MHz (-3dB)
- Rise time: 23.33/3.5ns
- Input resistance: 1/10MΩ
- Capacitance: 64/10.5pF
- Compensation range: 10–60pF • 48" cable



Part No.	Product No.	Description	1	10
156451CC	4550B	Probe kit	\$51.95	\$46.95

100MHz Logic Analyzer USB Interface

DigiView™ is a new 18-channel, 100MHz logic analyzer with professional quality and high portability. DigiView™ uses a deep-capture buffer and real time hardware compression to achieve long period captures without reducing resolution.



- 18-channels, 100MHz
- USB interface and power source for portability
- Real time hardware compression
- Compression ratio up to 256,000:1
- Trigger on rising, falling, or transition of any channel
- Pre-trigger and post-trigger data capture
- Captures up to 5 minutes of data @ 10ns resolution

Part No.	Description	1	5
256866CC	USB logic analyzer	\$498.95	\$474.09
256874CC	Cable replacement	29.95	28.49
256882CC	Grabber clip set (10)	29.95	28.50



Corporate Customers



Even lower OEM pricing for larger orders!

Call 1-800-831-4242 for details today.

1.5GHz Frequency Counter

2 Channels

- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display
- Frequency range: 0.1Hz to 150MHz (A input); 50MHz to 1.5GHz (B input)
- Resolution: 0.1nHz to 10Hz (A input); 0.1Hz to 100kHz (B input)
- Frequency, period, totalize, RPM
- Size: 10.3"L x 10.0"W x 3.2"H • Weight: 5.3 lbs.
- One-year warranty



Includes: Fuse, manual and BNC cable

Part No.	Product No.	1	5
55790CC	FC-7150	\$284.95	\$259.95

2MHz Sweep Function Generator with Frequency Counter

- Frequency range: 0.02Hz–2MHz in 7 ranges
- Sweep width: 1:1 to 100:1; rate: 20ms to 25s (.5Hz-50Hz)
- Output impedance: 50Ω ±5%
- Frequency counter range: 0.2Hz to 50MHz
- Maximum input voltage: 150VRMS @ 1kHz
- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Size: 10.3"L x 10.0"W x 3.2"H
- Weight: 5.8 lbs. • One-year warranty



EZ DIGITAL

Includes: Probe and detachable power cord

Part No.	Product No.	1	5
94676CC	FG7002C	\$329.95	\$296.95

2MHz & 10MHz Sweep Function Generators w/ Frequency Counter

Function Generator

- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges (192671CC); 1Hz to 10MHz (221911CC)
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50Ω load
- Output impedance: 50Ω ±10%
- Offset variable range (max.): ±10VDC at open load
- Frequency sweep time: 20ms to 2s



221911CC

METEX®

Frequency Counter

- Measuring range: channel A: 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
- Input sensitivity: channel A: 20mVRMS sinewave or 100mVp-p; channel B: 40mVRMS for 20MHz to 1.3GHz; 70mVRMS for 1.3GHz to 2.7GHz
- Maximum input voltage: channel A: 35Vp-p; channel B: 3Vp-p
- Input impedance: channel A, 1MΩ; channel B, 50Ω
- Data logging and graphic software
- Size: 11.0"L x 8.2"W x 3.7"H • Weight: 13.4 lbs.

Includes: Coax & power cable, manual, serial cable and software

Part No.	Description	1	5
192671CC	2MHz/2.7GHz	\$319.95	\$303.95
221911CC	10MHz/2.7GHz	417.95	396.99

2MHz & 3MHz Function Generators w/ Frequency Counter

Function Generator

- Wave forms: sine, triangle, square, TTL, and CMOS output; 229260CC has ramp
- Frequency ranges: 229251CC: 0.2Hz – 2MHz in 7 ranges; 229260CC: 0.3Hz – 3MHz in 7 ranges
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to >+5V into 50Ω load
- Voltage controlled frequency function
- Variable DC offset control



229251CC



229260CC

Frequency Counter

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs. • Two-year warranty
- 229251CC:
 - 4-digit LCD display
 - Ranges: 0.2Hz to 2MHz internal only; with resolution of 0.1Hz to 1kHz
 - Size: 9.1"W x 11.0"D x 3.7"H
- 229260CC:
 - 6-digit LCD display
 - Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10Hz to 0.1Hz
 - Size: 9.9"W x 11.5"D x 3.6"H

Includes: Power cord, operations manual and leads

Part No.	Product No.	Description	1	5
229251CC	GFG-8020H	2MHz	\$259.95	\$246.95
229260CC	GFG-8216A	3MHz	\$299.95	\$284.95

METEX® 4-in-1 Universal System With Function Generator, Universal Counter, DC Power Supply & Digital Multimeter

- Function generator capable of generating seven forms of waves (sine, square, triangle, skewed sine, ramp, pulse, and TTL square wave) in seven frequency ranges from 0.2Hz to 2MHz



Less Bench Space –
Great Convenience

- Universal counter capable of measuring frequency ranges from 5Hz to 1.3GHz
- DC power supply capable of generating 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- Digital multimeter with ranges of: DC voltage (400mV to 100V), AC voltage (400mV to 750V), DC/AC current (40mA to 20A), resistance (400Ω to 40MΩ), capacitance (4nF to 400μF) and forward resistance of a semiconductor junction in kΩ
- Size: 14.5"W x 14.0"D x 7.0"H
- Weight: 37 lbs. • One-year warranty

Includes: Manual, cables and software

Part No.	Product No.	1	5
160864CC	MS9150	\$549.95	\$499.95

2MHz Sweep Function Generator

- Waveforms: sine, square, triangle, pulse, ramp
- Frequency ranges: 0.02Hz – 2MHz in 7 ranges
- Tuning range: 100:1 on each range
- Linear sweep mode
- DC offset and voltage controlled frequency (VCF) inputs
- Output impedance: 50Ω ±5%
- Less than 2% sine wave distortion
- Amplitude: 2Vp-p – 20Vp-p open circuit
- Variable symmetry: 1:1 to 4:1 • TTL sync output
- 20ms to 2s variable sweep time
- Input voltage: 100/120/220/240VAC @ 48-66Hz
- Size: 8.8"W x 10.1"D x 3.3"H • Weight: 8.0 lbs.
- Two-year warranty



Protek

Part No.	Product No.	1	5
230594CC	B801	\$244.95	\$224.95 \$213.69

2MHz Function Generator

- Frequency range: 0.02Hz to 2MHz
- Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine
- DC offset voltage from 0 to ±10V; can be superimposed to output waveform
- Variable waveform/duty cycle symmetry
- Output voltage: 20Vp-p (open circuit), 10Vp-p (into 50Ω)
- Input voltage: 110V/220V 50-60Hz
- Size: 10.0"L x 8.0"W x 3.0"H • Weight: 5.4 lbs.
- One-year manufacturer's warranty



EZ DIGITAL

Includes: Cord, BNC to clip cable, fuse and manual

Part No.	Product No.	1	5	10
66069CC	FG8002	\$189.95	\$179.95	\$169.95

3MHz Function Generator

- Square, triangle, and sine waves; TTL and CMOS pulse outputs
- Frequency: 0.3Hz to 3MHz in 7 ranges
- Output impedance: 50Ω ±10%
- CMOS output level: 4Vpp, ±1Vpp to 14.5Vpp; ±0.5Vpp adjustable
- DC offset: <-5V to >+5V into 50Ω load
- Variable controlled frequency input
- Variable DC offset control
- Signal polarity invert button • Duty cycle control
- Size: 9.6"W x 11.5"D x 3.7"H • Weight: 4.4 lbs.



WAVETEK®
Meterman®

Part No.	Product No.	1	5
222594CC	FG2C	\$239.95	\$234.95

5MHz Function Generator

Engineered for high reliability and user convenience.

- Waveforms: sine, square, triangle, and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs. • Two-year warranty



BK PRECISION

Part No.	Prod. No.	Description	1	5
160469CC	BK4011A	0.5 to 5MHz	\$314.95	\$299.95

150kHz Sine/Square-Wave Audio Generator

Small and convenient, this audio generator can be used to test telco and audio equipment.

- 20Hz to 150kHz in 46 steps
- Low distortion R-C oscillator
- Variable output control
- Output impedance: 600Ω
- One-year manufacturer's warranty
- Size: 5.9"L x 3.2"W x 0.8"H
- Weight: 0.7 lbs.

Includes: 9VDC battery

Part No.	Product No.	1	10
166334CC	BK3001	\$78.95	\$75.99



BK PRECISION

Laser and Contact Tachometer

This combination non-contact and contact laser tachometer is ideal for measuring the revolving speed of fans, motors, gears, pumps, conveyors, and elevators.

- Photo tachometer range: 10 to 99,999 RPM with accuracy of ±0.05% + 1 digit
- Contact tachometer range: 0.5 to 19,999 RPM with accuracy of ±0.05% + 1 digit
- Measures from up to 6.5 feet from the target for improved safety and accessibility
- Memory stores last, maximum and minimum readings
- Display characters reverse direction for measurement type selected
- Large 0.4" (5-digit) LCD display
- Weight: 0.7 lbs.

Includes: 4-AA batteries, tips and wheel for RPM or linear surface speed, reflective tape, & carrying case

Part No.	Description	1	5
218106CC	Laser contact tachometer ..	\$248.55	\$225.97

New Lower Prices



EXTECH
INSTRUMENTS

30-Day Money-Back Guarantee

If you're not completely satisfied, we'll take it back!
Details on page 246.

Detailed specifications for Test Equipment – www.Jameco.com

Hygro + Infrared Thermometer

Combination humidity meter plus infrared thermometer features a super large backlit dual display. The primary display is user selectable for IR or humidity, while the secondary display always displays ambient temperature. The infrared thermometer has a built-in laser pointer with an 8:1 distance to target ratio.

- °C/°F • Auto power off
- Data hold and MAX
- Remote humidity sensor with 39" coiled cable
- Humidity ranges: 10.0 to 95.0% with ±3.5% accuracy
- Air temperature ranges: -4°F to +140°F (-20°C to +60°C) with ±3°F (2°C) accuracy
- IR temperature ranges: -58°F to +932°F (-50°C to +500°C); ±2° or ±4°F (2°C) accuracy
- Size: 2.8"W x 1.4"D x 5.9"H • Weight: 0.5 lbs.

Includes: Stand, holster, probe, battery and case

Part No.	Description	1	5
285974CC	Hygro/infrared thermometer	\$148.95	\$141.49



Pocket IR Thermometer with Laser Pointer

The pocket IR thermometer measures the surface temperature of objects which are difficult to reach or unsafe to contact. It also measures hot spots in electrical panels and equipment. In-process temperature measurements. With a 6:1 ratio field of view and built-in laser for improved aim, it covers 90% of surface applications for temperature measurement.

- Temperature range: -58°F to 518°F (-50°C to 270°C)
- Built-in laser pointer to improve aim
- °F/°C switchable
- Fixed emissivity (0.95) covers 90% of surface applications
- Visual overrange indicator
- 6:1 field of view • Pocket size meter
- Data hold and max hold
- Size: 3.8"L x 2.0"W x 0.9"D

Includes: 2 AA batteries

Part No.	Description	1	5
219361CC	Pocket IR thermometer	\$59.99	\$56.99

EXTECH
INSTRUMENTS



Non-Contact Infrared Thermometers w/ Laser Pointer

- Built-in laser pointer identifies target area
- Field of view: 6:1 (6" distance measures 1" target)
- Automatic data hold when trigger released and auto power off
- Fixed 0.95 emissivity covers 90% of surface application

Includes: 9V battery

236451CC:

- Temperature range: -4°F to 500°F (-20°C to 260°C)
- Basic accuracy: ±3% of reading
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Size: 6.7"L x 1.7"W x 1.6"D

211588CC:

- Temperature range: 0°F to 600°F (-20°C to 320°C)
- Basic accuracy: ±2% of reading
- 2000-count backlit LCD display
- Audible and visible over-range indicators
- Size: 8.3"L x 3.5"W x 1.5"D

Part No.	Product No.	1	10
236451CC	42500	\$79.95	\$74.95
211588CC	42529	88.95	84.50

EXTECH
INSTRUMENTS



Waterproof Thermometer



- 2.75" stainless steel stem
- Digital display of 0.1° resolution
- °C/°F switchable ranges -40°C to 200°C/-40°F to 392°F
- Max./min. recall of high and low temperature • HOLD & AUTO-OFF features
- Size: 5.9"L x 0.8"W x 0.7"T

Includes: LR44 button battery and protective cover

Part No.	Description	1	5
218077CC	Waterproof thermometer	\$15.99	\$14.39



Waterproof housing allows thermometer to be completely submerged in water

Mini Thermo-Anemometer

Waterproof, pocket size with air velocity, temperature and windchill, all in one. Ideal for checking blowers, fans, exhaust hoods and balancing AC/HT ducts.

- 0°F to 122°F (-18°C to 50°C)
- Measures wind speed in ft/min. MPH, m/s, km/h, knots and Beaufort force
- Large dual display for air velocity and temperature
- Water resistant housing floats and drop tested to 6'

Includes: CR2032 lithium battery and lanyard

Part No.	Description	1	5
218085CC	Mini thermo-anemometer	\$88.95	\$84.49



Digital Light Meter

- Measures in Lux and footcandle ranges
- Range: Lux - 0 - 50,000 Lux (3 ranges); footcandle - 0 - 5,000 Fc (3 ranges)
- Analog output connectors for external recording
- Separate light sensor for optimum location sampling
- 0.5" digit height
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H
- Weight: 0.9 lbs. • One-year warranty

Part No.	Description	1	10
131764CC	Digital light meter	\$99.95	\$89.95



Electromagnetic Radiation Meter

Electromagnetic radiation is all around us, some good, some bad. But, there's never been an easier, more portable device to detect and measure it until the ZAP Checker. Now you can measure your microwave oven's emissions or take engineering measurements of HF, VHF, or UHF transmissions. ZAP Checker does it all. Its portability, multiple settings, ultra-high sensitivity and expanded bandwidth allows you to search out EMR whenever and wherever needed.

- 10MHz to 4.5GHz

Part No.	Description	1	10
217808CC	ZAP checker	\$129.95	\$114.95



2dB Sound Level Meter

Ideal instrument to measure OSHA compliance, equipment design, community sound ordinances and sound system installations.

- High & low measuring ranges: High: 75 to 130dB; Low: 35 to 90dB w/ 0.1dB res.
- A and C weighting
- Large: 0.5", 3½-digit display
- Meets ANSI and IEC 651 Type II standards
- Fast/slow response; max. hold with reset button
- Built in calibration check
- Utilizes a 0.49" condenser microphone
- Size: 9.5"L x 2.7"W x 1.0"T • Weight: 0.5 lbs.

Includes: Hard vinyl case and 9V battery

Part No.	Description	1	5
218114CC	Digital decibel sound meter	\$221.85	\$201.68



Temperature/Humidity Meter with Min/Max Memory

- Displays (%) relative humidity and temperature (°C/°F) simultaneously
- Min./Max. memory on both relative humidity and temperature with reset function
- Temperature range: 14°F to 140°F (-10°C to 60°C);
- Humidity range: 10% to 99%
- 1" high readout
- Size: 4.3"L x 3.9"W x 0.8"Thick

Includes: Built-in tilt stand, AAA battery, and wall mounting bracket

Part No.	Description	1	10	25
198045CC	Temp./humidity meter	\$38.95	\$34.95	\$32.95



EXTECH
INSTRUMENTS

Detailed specifications for Test Equipment at www.Jameco.com.

Water Resistant Multi-Function Sports Timer/Stopwatch

- Time calendar display: hours, minutes, seconds, month, date, and day of the week
- Stopwatch accuracy: 1/100 of a second during the first 30 minutes, 1 second after 24 hours
- 12/24 hour time display mode
- Alarm and snooze function
- Size: 2.2"W x 2.7"H x 0.8"Thick



Part No.	Description	1	5
239652CC	Sports timer/stopwatch	\$7.49	\$6.75

LCD Stopwatch with Alarm and Calendar

- Water resistant housing, complete with 39" neck strap and battery
- Accurately times a two-person competition • Large LCD display
- Accurate to ± 3 seconds/day
- Displays accumulated elapsed time and split-time measurements
- 12/24 hour clock operation with settable hour chime, wake and snooze alarm
- Timing capacity of 23 hours, 59 minutes, and 59 seconds
- Size: 2.3"W x 2.8"H x 0.5"Thick



Part No.	Description	1	10
154739CC	Stopwatch w/ alarm	\$16.95	\$16.10

17MHz Logic Probe

- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Input impedance: 1M Ω
- Pulse flash time: 500ms
- Audible tones for high and low
- Power supply protection: $\pm 20V$
- TTL threshold: Lo = 0.8V $\pm 0.2V$, Hi = 2.3V $\pm 0.2V$
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H



Part No.	Description	1	10	25
149930CC	Logic probe	\$29.95	\$26.99	\$24.29

Logic Pulser

- Compatible with TTL, DTL and CMOS ICs
- 1M Ω sync input impedance
- "One shot" or continuous 5Hz train pulse
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10 μ s
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H



Part No.	Description	1	10	25
24601CC	Logic pulser	\$21.95	\$19.76	\$17.78

Mini DC/AC 2000-Count Clamp Meter/Multimeter

- Bright 1/2" LCD
- DATA HOLD
- 0.5" digit height
- Compatible w/ P/N 162325CC, below
- Weight: 0.9 lbs.
- Size: 7.1"L x 1.9"W x 1.4"H



ACA*	20A, 200A	$\pm 1.2\% + 5d$
DCA	200A	$\pm 1.2\% + 5d$
ACV*	500V	$\pm 1.0\% + 2d$
DCV	200V	$\pm 0.8\% + 1d$
Resistance	200 Ω	$\pm 1.2\% + 1d$
*Frequency Response	40-400Hz	
Zero Adjust	External knob for DCA	

Requires: 9V battery
not included (P/N 151095CC, pg 169)

Includes: Test leads, manual and case

Part No.	Description	1	10
115756CC	Mini DC/AC clamp meter	\$119.95	\$107.95



15A AC Line Separator for AC Current Clamp Meters

- Max. overload: 250VAC@15A
- X1 and X10 clamp areas
- Socket compatible with US & European connectors
- Convenient 0.1" dia. tip test points for neutral/earth/line



Part No.	Description	1	10	25
162325CC	3-prong US-type plug ..	\$10.95	\$9.95	\$8.95

50mV/50A Current Shunt

- Current range: 0 to 50A
- Accuracy: 0.8% $\pm 0.2mV$
- Output ratio: 1mV/1A
- Max. current: 100A



Part No.	Description	1	10	25
162309CC	Current shunt	\$24.95	\$22.49	\$19.95

Detailed specifications for Test Equipment at www.Jameco.com.

Opening an account is easy!! Call 1-800-831-4242 for details today.

Current Sensing Transformers

Class 1 Current Transformer

This series can be applied to test, control, display, and record the running of electrical equipment, and to protect the equipment against damage in the AC circuit.

- Maximum voltage: 660VAC
- Size: 3.0"L x 3.2"W x 1.6"T
- Frequency: 50-60Hz
- Weight: 1.1 lbs.

Includes: Mounting bracket and hardware



Part No.	Mfr. Cross Ref. No.	Power	Ratio	1	10	100
174887CC	MSQ30	5VA	200A/5A; 5VA	\$4.49	\$4.04	\$3.64

Current Sensing Transformer

- Inductance: 5mH
- Turns: 60
- Sensitivity current (I_{in}): 1A
- Max. current: 300mA
- Freq. range: 10-50 kHz
- Sensitivity voltage (V_{out}): 1V
- Terminating resistor: 50 Ω
- Size: 0.8"H x 0.7"W x 0.4"T



Part No.	Mfr. Cross Ref. No.	1	10	100
164718CC	MTC30101	\$2.15	\$1.95	\$1.75

Test Leads

Claw Clips and Alligator Clips



Part No.	Description	Size	2	4	10
248920CC	Mini-alligator clip solder/crimp	1.2"L x 0.3"W	\$0.28	\$0.25	\$0.23
248954CC	Red insulator for 248920CC	— .....	.18	.16	.14
248946CC	Black insulator for 248920CC	— .....	.18	.16	.14
256524CC	Alligator clip, barrel/screw	1.9"L x 0.2"W .....	.45	.38	.35
248938CC	Alligator clip, solder/crimp	1.6"L x 0.3"W .....	.52	.48	.42
248971CC	Red insulator for 248938CC/256524CC	— .....	.21	.19	.17
248962CC	Black insulator for 248938CC/256524CC	— .....	.21	.19	.17
248989CC	Claw clip 10A, screw terminal	2.1"L x 0.4"W .....	.45	.44	.40
249009CC	Claw clip 20A, screw terminal	2.5"L x 0.5"W .....	.55	.50	.45
248997CC	Claw clip 30A, screw terminal	2.8"L x 0.6"W .....	.69	.62	.55

Deluxe Electronic Test Lead Kit

One pair (red & black) of:

- One meter long test lead with a right-angle banana connector on one end
- Insulated probe tip extender
- Modular test probe with banana connector in handle
- Modular hook-style clip test lead with banana connector
- Modular pinch-style clip test lead with banana connector
- Insulated alligator clip
- Modular alligator clip with banana connector
- Slide-on IC probe tip adapter and test lead couplers
- Bare spade lug with banana connector



Part No.	Product No.	1	5
222463CC	TL81A	\$98.95	\$93.95

Test Leads, Plugs and Binding Posts

Color Code Legend
New Sale Qty. Save

Mini-Clip to Banana Test Cables

- Plunger-type action
- Available in black or red
- Positive connection that won't disconnect from components
- Banana plug connection on opposite end
- Length: 3.5' • 20 AWG insulated wire



Part No.	Description	1	10	100
21856CC	Black test cable	\$3.95	\$3.55	\$2.99
21864CC	Red test cable	3.95	3.49	2.99

Pomona® Stackable Banana Test Lead Cables

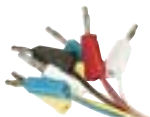


- 5000V @ 15A • 55°C max.
- 159898CC: Two 36" leads, mini clip w/ banana
- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation
- 159901CC: Two 24" leads 159919CC: Two 36" leads

Part No.	Prod. No.	Description	1	10	25
159898CC	3782-36	Mini w/ banana	\$7.95	\$7.19	\$6.59
159901CC	B-24-02	Patch cord	9.95	8.95	7.95
159919CC	B-36-02	Patch cord	9.95	8.95	7.95

Banana-to-Banana Test Leads

- Stackable
- Color coded; 2 each red, yellow, blue, black, white • 9.8" long
- 10 per package
- 18 AWG wire



Part No.	Description	1	10	25
77841CC	Test leads	\$22.95	\$20.69	\$18.59

Double-Banana Plug to Alligator Clips Test Cable

- Red & black rubber boot
- 4" lead wire • Length: 3'



Part No.	Description	1	10	50	100
107422CC	Test cable	\$3.95	\$3.49	\$2.95	\$2.49

Alligator Clip Leads

- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors



Part No.	Description	1	10	100	1000
10444CC	Alligator leads	\$4.39	\$3.95	\$3.56	\$3.20

BNC to Alligator Clip Test Cable

Permits BNC assembly to be used as a test cable.

- Upper connection: two alligator clips – red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable with BNC connector



Part No.	Description	1	10	100	1000
11383CC	BNC cable	\$3.49	\$2.49	\$2.25	\$2.05

Insulated Alligator Clips

- Color-coded • Insulated barrel
- Jaw opening .375"-0.5"
- Solder strap and pre-drilled hole for 6-32 self threading screw • Size: 2.3"L x 0.5"W



Includes: One red and one black clip

Part No.	Description	1	10	100	1000
70990CC	Alligator clips	\$0.39	\$0.36	\$0.33	\$0.30

1 1/16" Banana Plugs

- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- Insulating sleeve is threaded to banana plug body
- .1875" lead opening • Size: 1.6"L x 0.4"Dia.



Includes: One red and one black plug

Part No.	Description	1	10	100	1000
72194CC	Banana plugs ...	\$1.59	\$1.49	\$1.25	\$1.09

2 1/4" Banana Plugs

- Nine rib spring plug
- Will accept up to 0.1" dia. wire
- Each plug equipped with hole for interconnection
- Insulating sleeve fits snugly over copper post
- Size: 2.3"L x 0.3"W • Set-screw connection



Includes: One red and one black connector

Part No.	Description	1	10	100
137525CC	Banana plugs	\$2.95	\$2.12	\$1.84

Pomona® Solderless Banana Plug Sets



- Nickel-plated
- ABS insulation
- Set screws secure leads
- 5000VDC @ 15A • 50°C max.
- Color: 1 red and 1 black per set

159863CC: Solderless with safety collar & set screw
159855CC: Solderless with set screw
159927CC: Solderless double banana plug w/ wire guide

Part No.	Product No.	1	10	25
159863CC	1825-02 set	\$2.65	\$2.50	\$2.38
159855CC	1325-02 set	3.29	2.99	2.69
159927CC	MDP-02 set	4.69	4.38	4.07

BNC to Standard Double Banana Plugs



Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11439CC	BNC banana plug (F)	\$4.95	\$4.49	\$3.99
125225CC	BNC banana plug (M)	5.49	4.95	4.45

Double Banana Plugs

- Dual gold-plated female banana plugs
- Stackable



Part No.	Description	1	10	100
125209CC	Blk banana conn.	\$2.65	\$2.39	\$2.15
125217CC	Red banana conn.	1.99	1.79	1.61

1" Screw-Type Binding Posts

- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mount with lock washer and nut • Solder tab hole: 0.06"Dia.
- Size: 1.0"L x 0.5"Dia.



Requires: 0.32" mounting hole

Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
71239CC	Binding posts (2)	\$0.99	\$0.85	\$0.69	\$0.59

1 3/4" Screw/Solder Binding Posts

- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mounting
- Solder post: 0.0625"Dia.
- Size: 1.8"L x 0.5"Dia.



Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
77690CC	Binding posts (2)	\$1.09	\$0.95	\$0.79	\$0.69

Panel Mount Tip Jacks 1/4" – 32 Thread

Mounts in panels ranging in thickness from 0.063" to 0.375".

- Plating: bright tin
- Material: brass
- Insulation: polycarbonate • 10 per package



Part No.	Cross Ref. No.	Color	1	10	100
256778CC	R1-17-BLK	Black ...	\$7.79	\$7.49	\$7.31
263863CC	R1-17-RED	Red	7.79	7.49	7.31

Chassis Mount Banana Jack

- 0.158"
- Molded ABS black plastic body
- Nickel plated steel solder lug and washer



Part No.	Description	1	10	100
291936CC	Black banana jack	\$0.67	\$0.52	\$0.48

Double Binding Posts – Dual Banana

- Red/black design
- Screw-mount
- 0.72" between posts • Size: 1.6"L x 1.4"W



Part No.	Description	1	10	100
125196CC	Screw mount bind post ..	\$3.95	\$3.45	\$3.19

Single Binding Post to BNC Male

- Binding post with captive thumb nut
- Accepts standard banana plugs
- Operating voltage: 500 VRMS
- Brass nickel plated

See page 105 for BNC Connectors



Part No.	Description	1	10	100
100600CC	Red binding post	\$1.35	\$1.07	\$0.85
100618CC	Black binding post	1.59	1.34	1.06

BNC to Double Binding Posts – Dual Banana

- Red/black design



Part No.	Description	1	10	100
125233CC	BNC-female	\$4.95	\$4.49	\$4.05
99354CC	BNC-male	5.29	4.76	4.28

Protected Banana Style Multimeter Test Probes

- Threaded/pointed test tip
- 18 AWG wire
- 42" long
- Black and red
- 2 per package

Part No.	Description	1	10	25
77737CC	Protected probes	\$6.49	\$5.85	\$5.25

Standard Banana Style Multimeter Test Probes

- Black and red
- 18 AWG wire
- 42" long
- 2 per package

Part No.	Description	1	10	25
77745CC	Std. banana probes	\$7.69	\$6.95	\$6.25

PROBE MASTER Probe Test Leads

- 23K gold tips
- Silicon wire
- 1000V rated
- Length: 3'3"

174625CC Includes:
10 plunger type tips

212222CC Includes:
10 pieces; screw-on
alligator clips, spade
lugs and spring hooks

Part No.	Description	1	10	25
174625CC	Micro tip test leads	\$29.85	\$28.35	\$26.95
212222CC	Softie test leads	23.85	22.65	21.55

PROBE MASTER Probe Kits

- Rating: 1000V 10A
- Gold tips and contacts
- 212231CC: Universal probe kit includes leads with shrouded right angle banana plug, probes, sprung hook probes, alligator clips and spade lugs

212249CC: Electronic deluxe probe kit includes same as P/N 212231, plus extender probes, minigator leads, .025" wire wrap leads, pico hooks and pincer hooks

Part No.	Description	1	10
212231CC	Universal probe kit	\$32.85 \$29.95	\$28.45
212249CC	Elect. deluxe probe kit	\$69.85 65.95	62.99

Pomona® Replacement Probe Test Lead Set

- Set of two PVC 48" insulated leads, probe to banana plug
- Fits all DMMs
- Right-angle multimeter connectors

Part No.	Product No.	1	10	25
155951CC	5519A	\$12.95	\$11.49	\$10.49

Breadboard-Pin to Breadboard-Pin Test Leads

- 4 each red, yellow, blue, black, white
- 5.9" long
- 20 AWG wire
- 20 per package

Part No.	Description	1	10	25
77825CC	Breadboard pin leads	\$12.95	\$11.69	\$10.49

Pomona® Basic Electronic DMM Test Lead Kit

Kit contains 2 each (black/red):

- Test probes with silicone insulated lead
- Slide-on extended tips & alligator clips
- Supplied in a reusable plastic case
- 48" leads
- Fits most equipment with banana jacks

Part No.	Product No.	1	10	25
155942CC	5672A	\$22.95	\$21.80	\$20.71

Universal Test Lead Kit

Includes: 3' black/red cables, 4.5" black/red insulated test probes, 0.8" needle probes, spade terminals, 2 sets of 4 pieces each red/black insulated alligator clips and banana plug

Part No.	Description	1	10	100
168516CC	Universal kit	\$8.95	\$7.95	\$6.95

Micro Test Clip

- One piece per package

Part No.	Description	1	10	100	1000
153162CC	1.6" micro test clip	\$0.75	\$0.59	\$0.35	\$0.26

Mini Test Clips

- Two lengths

Includes: One black and one red hooked probe clip

Part No.	Description	1	10	100
114809CC	1.75" mini test clips	\$1.89	\$1.49	\$1.35
114817CC	3.5" mini test clips	1.75	1.55	1.39

Mini-Clip Test Leads

These spring loaded mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow
- 14"L; clips on both ends
- 26 AWG to 300V CSA/UL approved wire

Part No.	Description	1	10	100	1000
135298CC	Mini test leads	\$11.49	\$10.39	\$9.29	\$8.39

Pomona® 11"L Test Lead Holders

155985CC:

- Max cable dia.: 0.450"

155977CC:

- Max cable dia.: 0.320"

155969CC: • Max cable dia.: 0.210"

Part No.	Prod. No.	Slots	Color	1	10	25
155985CC	2708B	9	Blue	\$9.95	\$9.45	\$8.98
155977CC	4408	10	Black	9.95	9.45	8.95
155969CC	1508	14	Orange	9.95	9.45	8.98

Jameco's Low-Price Guarantee

If you happen to find a like product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!



BNC Female Connector with 20AWG Lead Wires

Solder the 20AWG wires onto your protoboard, plug the BNC female connector on to your test equipment and you have an instant testing board for varied applications.

- BNC female connector
- 7" 20AWG lead wires

Part No.	Mfr. Cross Ref. No.	1	10	100
256831CC	CBB-069	\$4.59	\$4.39	\$4.19

Pomona® Minigrabber® Test Clip Patch Cord Kits

- One each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white
- 24" leads; clips on both ends

Part No.	Prod. No.	Description	1	10
156494CC	5523	Patch cord (hook)	\$34.95	\$31.49
156507CC	5521	SMD cord (jaws)	59.95	56.95

BNC to Clip Test Cables



BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

- Micro-clip or mini-clip
- Length: 39"

Part No.	Description	1	10	50	100
11421CC	Micro-clip RG174	\$3.99	\$3.19	\$2.89	\$2.59
11463CC	Mini-clip RG174	4.39	3.99	3.59	3.19

Pomona® BNC to Minigrabber® Test Clips

- RG 174/U, .100" O.D.
- Rating: 300 V_{RMS} max., +50°C (+122°F) max.
- Strain relief: PVC molded directly to connector
- Length: 36"

Part No.	Product No.	1	10
176954CC	5187-K-36	\$21.95	\$19.95

Pomona® BNC Male w/ Molded Strain Relief to Minigator® Test Clips

- RG 58C/U, .195" O.D.
- Rating: 45 V_{RMS} max., +50°C (+122°F) max.
- Jaws open to .187" max.
- Length: 36"

Part No.	Product No.	1	10
176971CC	4532-C-36	\$16.95	\$15.26

Pomona® BNC Cables

- RG58 C/U 50Ω cable
- BNC male connectors
- Molded strain relief
- Length: P/N 159871CC: 36" P/N 159880CC: 60"

Part No.	Product No.	1	10	25
159871CC	2249-C-36	\$15.95	\$14.39	\$12.95
159880CC	2249-C-60	15.95	15.15	14.39

RS-232 Mini-Tester with Status LEDs

Tests any RS-232 (DB25) interface and helps to identify equipment that has failed. Seven bicolor LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25.

Part No.	Description	1	10	100
26729CC	Mini-tester	\$11.95	\$10.76	\$9.68

Miniature RS-232 Breakout Box for Quick Design Changes

Design new interfaces or modify old ones quickly and easily. Completely self-contained. Connectors: male to female DB25.

Includes: 25 each 22 AWG wire jumpers and machine tool sockets

Part No.	Description	1	10	100
11181CC	Breakout box	\$8.95	\$7.95	\$6.95

RS-232 Loopback Tester

The tester acts as a data verifier by sending data back to the transmission device. Used for diagnostic testing of RS-232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20, and 15 to 17. Connectors: male to female DB25.

Part No.	Description	1	10	100
22728CC	Loopback tester	\$6.95	\$5.95	\$4.45

RS-232 Line Status Tester

Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19, and 20. Connectors: male to female DB25.

Part No.	Description	1	10	100
14285CC	Check line tester	\$8.95	\$8.09	\$7.25

RS-232 Signal Adapter/Splitter

- Metal connectors: DB25 female and male, and DB9 male
- Gold-plated contacts

Part No.	Description	1	10	100
105195CC	Tri-port serial adapter	\$7.95	\$6.95	\$5.95

Flexible Multilink RS-232 Tester & Breakout Box

Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20, and 22 on the DTE and DCE sides. Provides signal status at a glance. Complete cable "breakout" & reconfiguration. Connectors: DB25 male & DB25 female.

• Cable length: 4' • Size: 3.5"L x 3.3"W x 1.0"H
Includes: handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10	25
25945CC	Tester/breakout box	\$22.95	\$19.95	\$17.95

Paladin

PC Cable-Check™ Tester

Tests standard computer cables for open, shorted and cross-connected wires. PC Cable-Check™ also tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, plus RJ11, and RJ45 telephone plugs. A separate section to check USB-A to USB-B cables, as well as a separate section to check female BNC to female BNC cables.

Part No.	Description	1	10
123916CC	PC cable-check™ (battery and manual included)	\$169.95	\$152.95



Heat Guns and Accessories

1000-Watt Heat Gun

- Dual heat setting: 600°F/1100°F
- Works with spot dry paints, plaster, spackle, and cure adhesives
- Use with heat-shrink material
- Thaw pipes, frozen locks, and loosen rusted bolts
- Input voltage: 110-120 VAC



Part No.	Description	1	6	12
254924CC	Heat gun	\$42.55	\$41.10	\$36.85

Heat Gun/Stripper

Dual-Setting

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw pipes, frozen locks and loosen rusted bolts
- UL listed • Weight: 1.8 lbs. • Size: 9.3"L x 7.0"W



Part No.	Description	1	10	25
76865CC	Heat gun	\$39.95	\$35.95	\$31.95
217816CC	Heat shrink attachment	1.95	1.85	1.75
217832CC	Air spreader	1.95	1.85	1.75

Weller®

250-Watt, 3-Setting Industrial Heat Gun

- 750°F to 800°F hot air at nozzle; 3-position switch; hot-off-cool
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- 120VAC @ 60Hz • ESD safe
- Long-life heater and fan components
- 3-wire grounded plug; 6' cord



Part No.	Product No.	Wt. (lbs.)	1	10
191943CC	6966C	1.2	\$119.95	\$107.95

WAHL® 1,200°F Portable Heat Gun

- Portable and flameless heat
- Temperatures up to 1,200°F (650°C)
- Typical applications: shrink tubing, activate adhesives and potting compounds, form plastics and laminates and preheat flux
- Each cartridge (disposable butane lighter) provides approximately 20 minutes of heat
- Includes disposable gas lighter
- Electronic ignition
- Size: 4.8"L x 0.9"W • One-year warranty

ETL listed



Part No.	Description	1	10
150691CC	Portable flameless heat gun	\$24.95	\$23.69

Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black



PVC Heat Shrink Tubing

- Shrink temp: 125°C
- Sold in 10' and 100' increments

Part No.	Dia. before (mm)	10 ft.	100 ft.
184721CC	.12" (3)	\$1.19	\$10.50
182730CC	.16" (4)	1.39	12.50
182748CC	.20" (5)	1.45	13.00
182756CC	.24" (6)	1.49	13.50
182764CC	.31" (8)	1.79	16.00
182772CC	.43" (11)	2.80	19.00
182781CC	.59" (15)	3.50	30.00

PVC Heat Shrink Flat Film

- Shrink temperature: 175°C
- Temperature range: -45°C to +125°C
- * Precut 39" length; sold as 1 increment



Part No.	Flat	Unshrunk Cir. Dia.	Shrunk Cir. Dia.	1*	10*	100*
70631CC	5/16"	1/4"	1/8"	\$1.69	\$1.55	\$1.39
70623CC	1/2"	5/16"	3/16"	1.69	1.55	1.35
70666CC	13/16"	9/16"	1/4"	1.69	1.45	1.09

Polyolefin Heat Shrink Tubing

- Dielectric strength: 1300V
- Flame retardant
- Flexible
- Shrink temp.: 121°C
- Temperature range: -45°C to +125°C
- * Precut 39" length; sold as 1 increment



Part No.	Before	After (Dia.)	1*	10*	100*
71327CC	1/16"	1/32"	\$0.55	\$0.46	\$0.41
71870CC	3/32"	3/64"	.55	.45	.39
71280CC	1/8"	1/16"	.69	.59	.54
72063CC	1/4"	1/8"	.89	.72	.65
226245CC	3/8"	3/16"	1.09	.98	.88
216477CC	1/2"	1/4"	.99	.89	.85



See page 85 for Heat Shrink Tubing Kit.

Adjustable Cordless Screwdriver

- Adjustable handle can be used folded or unfolded
- Thumb switch for reverse and forward action
- No load speed: 180 RPM
- Clutch operating torque from 4 to 21kg-cm
- 3.6V rechargeable battery
- Size: 10.5"L x 1.5" Dia. • Weight: 1.6 lbs.
- Includes: 6VDC @ 300mA power supply and screwdriver bits, slotted and Phillips



Part No.	Description	1	10
176680CC	Cordless screwdriver	\$36.95	\$33.26

60-Piece Bit, 1/4" Socket and Driver Tool Kit

This compact kit contains the most popular bits and 1/4" sockets with a comfortable cushioned, reversible ratchet driver handle.



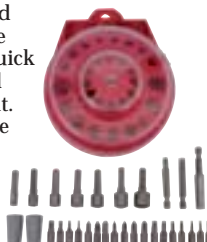
SALE

- Drill bits: 1/16", 3/32", 1/8", 5/32", 3/16"
- Socket bits: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm
- Phillips bits: #1, #2, #3 • Phillips Z bits: 1, 2, 3
- Slotted bits: 1/8", 5/32", 3/16", 1/4", 9/32"
- Hex bits: 5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4"
- Torque bits: T-10, T-15, T-20, T-25, T-30, T-40
- Square bits: 1, 2, 3 • 2.4" Magnetic bit adapter
- Reversible ratchet screwdriver
- 7.5" Flexible extension • Socket adapter
- 6" long nose pliers • 6" adjustable wrench
- Vinyl zipper case with organizer to find sizes fast
- Size: 8.5"L x 6.5"W x 2.2"H • Weight: 3.1 lbs.

Part No.	Description	1	5
218261CC	60-piece tool kit	\$35.95 \$26.79	\$24.36

30-Pc 1/4" Bit Set with Organizer

A 30-piece bit set supplied in a neat, compact storage drum organizer allows quick access, identification, and selection of the desired bit. All the bits are compatible with power tools, rechargeable drills, and multi-bit screwdriver handles.



Set includes:

- Nut bits: 7/16", 3/8", 11/32", 5/16", 9/32", 1/4", 3/16"
- Hex bits: 3/16", 1/8", 7/64", 5/64"
- Torx bits: T10, T15, T20, T25, T30
- Phillips bits: #0, #1, #2, #3
- Slotted bits: #3, #4, #5, #6, #7 • Pozi bits: #1, #2, #3
- 1 bit holder • 2 screw aligners

SALE

Part No.	Description	1	5
227230CC	30-piece 1/4" bit w/ organizer	\$6.59 \$4.89	\$4.45

32-Piece Security Bit Set

This set contains most of the bits that match the fasteners commonly used in today's electronic products to make them tamper resistant. With these bits you can open security cases to repair the contents without damaging the case or screws.



Includes: Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver

Part No.	Description	1	10
223829CC	32-piece security bit set	\$11.95	\$10.75

Sale items highlighted in yellow.

Jameco Special Values!

Great quantity discounts highlighted in green.

For detailed dimensions, please visit our website at www.Jameco.com

Variable High-Speed Rotary Tool Kit

A multiple high-speed rotary tool kit with 6-speed selections ranging from 8,000 to 30,000 RPM, along with 40 bits and accessories, provides you all the power and precision you need to tackle almost any cutting, drilling, polishing, sanding or engraving job. With its high-speed output, plus a nylon body, you can grasp the tool lightly to perform fast rough work or delicate craftsmanship. A convenient shaft-lock button provides fast-and-easy accessory bit changing.

- 9" long variable-speed rotary tool
- Drum sander wheel • 3 drum sander pads
- 2 felt buffing pads • Disk sanding arbor
- 6 disk sanding pads • 7 disk grinders
- 10 rotary grinders • Grinder dressing stone • 4 rotary files • 2 drill bits • Wrench
- One-year manufacturer's warranty



SALE

Part No.	Description	Case Dimensions	Wt. (lbs.)	1	5
211289CC	High-speed rotary tool kit	12.0"W x 7.0"D x 3.5"H	3.3	\$42.69	\$40.57

7-Piece Grinding/Polishing Set

- Aluminum oxide cylindrical stone
- Aluminum oxide blunt nose stone
- Cylindrical cotton
- Bullet head cotton
- Cylindrical cork



SALE

Part No.	Description	1	5
226667CC	7-pc. grinding stone set	\$12.29	\$11.85

50-Piece Cut-Off Wheel Set

- 4 alum. carbide cut-off wheels, 7/8"Dia.
- 18 aluminum carbide cut-off metal wheels, 15/16"Dia.
- 6 aluminum carbide cut-off wood wheels, 15/16"Dia.
- 18 aluminum carbide cut-off wheels, 1.0"Dia.
- 4 aluminum carbide cut-off wheels, 1 1/4"Dia.



Part No.	Description	1	5
226608CC	50-pc. cut-off wheel set	\$23.25	\$22.09

9-Piece Assorted Drill Bit Kit

- Variety of sizes: .014" to .126"
- Shank diameter: .125"
- Each kit will vary in contents of bit sizes



Part No.	Description	1	10	50
131676CC	9-piece drill bit kit	\$9.95	\$8.95	\$7.95

Mini-Drill and Stand

This Mini Drill is excellent for drilling through circuit boards and proto-boards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



Part No.	Description	Wt. (lbs.)	1	10	25
26702CC	MS398 drill	0.8	\$29.95	\$26.95	\$23.95
26711CC	MS399 stand	1.8	19.95	17.95	15.95

6-Piece Rotary Brush Set



SALE

Part No.	Description	1	5
226641CC	6-pc. rotary brush set	\$15.15	\$14.39

7-Piece Engraving Cutter Set

- Ball tips
- Flat cut
- Arrow head, v-cut
- Bullet tip, round cut
- Fine point, v-cut
- Flat head

SALE



Part No.	Description	1	5
226624CC	7-pc. engraving cutter set ..	\$16.99	\$16.19

High-Speed Steel Step Drill Bits

Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick.

229657CC: • Shank size: 3/8" • 2.4" long
172401CC: • Shank size: 1/4" • 2.5" long

Part No.	Description	1	10	25
229657CC	3/16" - 7/8" 13-step	\$14.95	\$13.45	\$12.10
172401CC	3/16" - 1/2" 6-step	9.95	8.95	7.95

PC Board Drill Bits

- Reconditioned carbon steel bits
- High quality long lasting cutting edge
- Shank diameter: .125"
- Use for drilling holes in glass PC boards



Part No.	Drill Dia.	No.	Application	1	10	100
16619CC	.021"	75	Miscellaneous	\$1.55	\$1.40	\$1.26
16580CC	.040"	59	Plated thru holes	1.75	1.58	1.42

17-Piece Offset Ratchet and Socket Driver Set **SALE**

This offset ratchet and socket driver set includes 6 hexagon sockets made from quality hardened carbon steel. The handle features a 1/4" male head drive to accommodate the accompanying bits & sockets.

- Phillips bits: #1 and #2 • Pozi bits: #1 and #2
- Torx bits: T10, T15 & T20 • Slotted bits: 4, 5 & 6mm
- Hex sockets: 3/16", 7/32", 1/4", 5/16", 11/32" & 3/8"
- Reversible driver handle with 1/4" male head

Part No.	Description	1	5
226069CC	Offset ratchet & socket	\$5.95 \$5.49	\$5.25

Flexible Ratchet Driver Set

With the mini-ratcheting handle and 7.5" flexible shaft, you can loosen or tighten those hard-to-reach screws.

Includes: Flexible shaft (190mm), mini ratchet handle that has forward, reverse and conventional settings, slotted bits (4mm, 5mm & 6mm), Phillips (#1 & #2 bits), Pozi (#1 & #2 bits), and Torx (10, 15 & 20mm bits)

Part No.	Description	1	5
223802CC	Ratchet drivers set	\$6.25	\$5.68

Twin Wrench Driver Set

The handle of this twin wrench driver set has two tips, horizontal and vertical for those hard-to-reach areas.

- Non-slip double ended driver
- Three slotted bits: 4mm, 5mm, and 6mm
- Phillips bits: #1 and #2 • Pozi bits: #1 and #2
- Torx bits: 10mm, 15mm, and 20mm

Part No.	Description	1	10
223811CC	Twin wrench driver set	\$4.65 \$3.99	\$3.79

29-Piece 1/4" Driver Socket Wrench Set **SALE**

- Flank driver socket (6 pt): 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12 and 13mm
- Slotted bit: 4, 5.5 & 7mm
- Hex bit: 3, 4, 5, 6 & 8mm
- Phillips bits: #1 and #2
- Pozi bits: #1 and #2
- 2" extension bar • Sliding T bar
- Universal joint • Extension bar with spinner handle
- Pear-type ratchet handle with quick release
- Size: 8.7"L x 4.3"W x 1.6"H • Weight: 1.8 lbs.

Part No.	Description	1	5
226229CC	1/4" driver socket	\$27.95 \$20.69	\$19.65

25-Piece Screwdriver Grab Bag

25 assorted sizes and types of screwdrivers in a box. Types may include slotted, Phillips, Torx or star.

Part No.	Description	1	10
235070CC	Assorted screwdrivers	\$15.99	\$14.99

6-Pc Long-Neck Screwdriver Set

- Three slotted: 0.09"Dia. x 6.6"L, 0.12"Dia. x 6.6"L, 0.16"Dia. x 9.6"L
- Three Phillips: No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L

Part No.	Description	1	10	50
99451CC	6-pc. screwdriver set	\$8.95	\$8.06	\$7.25

JAMECO Pocket Screwdriver

Phillips & Flat head

- Size: 6"L
- Pen clip for pocket storage

Part No.	Description	1	10	100
127271CC	Pocket screwdriver	\$1.55	\$1.45	\$1.19

33-Piece Ratchet Driver Set

High torque reversible ratchet handle with forward, reverse, and conventional settings. Magnetic shaft holds steel screws to bit for easy positioning. Bits can easily be stored in handle for easy transport.

- Torx bits: T6, T7, T8, T9, T10, T15 and T20
- Nut bits: 3/16", 1/4", 9/32", 5/16", 11/32" and 7/16"
- Hex bits: 1.5, 2.0, 2.5, 3, 4, 5, 6 and 8mm
- Pozi bits: #0, #1, #2 • Phillips bits: #0, #1, #2
- Slotted bits: 3, 4.7 and 6.3mm • 50mm adapter
- Size: 9.1"W x 2.0"D x 7.6"H • Weight: 1.7 lbs.

Part No.	Description	1	5
226051CC	33-piece ratchet driver set	\$16.09	\$14.64

Save Money! Buy a Second?

Your company pays you a good dollar for a reason – you're worth a lot to your company when you are creating a solution.

So think about how much time you spend locating tools. At your hourly pay rate, the time lost probably exceeds the cost of a duplicate set of tools.

You may have a well-outfitted bench, but some of us use hand tools in another location. And for some of us, if you spend less time searching for frequently used tools, you could save the company money in the long run and increase your productivity!

Practical Practices
Money Saving Tips for the Engineer

Order Anytime 24x7x365

11-Pc Precision Screwdriver Set

- 0.9, 1.2, 1.4, 1.8, 2.4 and 3mm slotted screwdrivers
- Phillips #00, #0 and #1 screwdrivers
- Awl
- Magnetic pick-up

Part No.	Description	1	5
226093CC	Precision screwdriver	\$4.49	\$4.29

7-Piece Insulated Screwdriver Set

- Tapered handle for sure grip
- Precision ground shank
- Hardened, magnetic tips

Includes: 0.4/0.8/1.0/1.2mm slotted; #0/1/2 Phillips

Part No.	Description	1	5
261999CC	Screwdriver set	\$19.25	\$17.59

6-Pc Precision Torx Screwdriver Set

- T5 and T6 x 50mm Torx screwdrivers
- T7, T8, T9, T19 x 50mm Torx hex screwdrivers

Part No.	Description	1	5
226106CC	Precision TORX screwdriver	\$12.95	\$12.29

6-Pc Precision Screwdriver Sets

34041CC includes: 3/64", 1/16", 5/64", 5/32", 1/8" & 9/64" slotted screwdrivers

34059CC includes: 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers

Part No.	Description	1	10	50
34041CC	Slotted set	\$3.59	\$3.23	\$2.91
34059CC	Phillips set	3.59	3.23	2.91

6-Piece Screwdriver & Pliers Set

- One micro cutting nipper
- One micro flat nose pliers
- 2 long-neck slotted: 0.12"Dia. x 9.61"L; 0.09"Dia. x 7.64"L
- 2 long-neck Phillips: No.0, 0.12"Dia. x 9.61"L; No.2, 0.09"Dia. x 7.64"L

Part No.	Description	1	10	50
99565CC	Screwdriver/pliers	\$13.49	\$11.49	\$8.59

7-Piece Nut Driver Sets

- Premium hardened steel sockets
- Large colored handles
- 261850CC: Metric** 5mm, 6mm, 7mm, 8mm, 9mm, 10mm & 11mm
- 261841CC: SAE** 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"

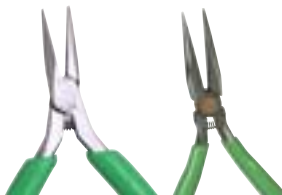
Part No.	Description	1	5
261850CC	Metric nut driver set	\$8.99	\$8.65
261841CC	SAE nut driver set	9.89	9.49

Phone 1-800-831-4242
Online www.Jameco.com
Fax 1-800-237-6948

Xcelite® Needle Nose Pliers

217891CC (submini needle nose):

- Serrated jaws
- Positive gripping of fine wire or subminiature components
- Fine point allows use in confined areas



217891CC

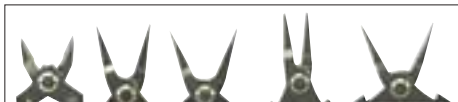
217998CC

217998CC: Smooth jaws

- General purpose for pick-up and wire forming

Part No.	Prod. No.	Description	1	10
217891CC	L4	4" mini needle nose	\$14.95	\$13.69
217998CC	LN54G	5" thin long nose	14.95	13.46

Precision 5-Piece Stainless Steel Pliers Set



- Spring return
- Insulated handles

Includes:

One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	10	25
73120CC	5-piece set	0.6 ...	\$17.95	\$16.16	\$14.54

Half-Round Long Nose Pliers

- Drop forged steel
- Spring return action
- Length: 4.5"
- Heat treated
- Vinyl grips
- Knurled jaws



Part No.	Description	1	10	50	100
177607CC	Half-round pliers	\$4.95	\$4.49	\$3.95	\$3.59

5" Cutting Pliers

Recommended for cutting copper and soft lead wires. Ideal for precise circuit board work. Spring loaded.



Part No.	Description	1	5
261809CC	Cutting pliers	\$4.99	\$4.55



More Cutters and Strippers
from **Paladin Tools®**
see page 213.



5.3" Flat and Half-Round Long Nose Pliers

- Stainless steel
- Spring return
- Durable rubber handles
- 5.3" length w/ 1.4" plier nose



35473CC/35490CC: Knurl jaws
195531CC: Smooth jaws

Part No.	Description	1	10	50	100
35473CC	Flat long nose ..	\$5.49	\$4.99	\$4.49	\$3.49
195531CC	Flat long nose	4.95	4.49	3.95	3.49
35490CC	Half round	5.49	4.99	4.49	3.49

5-Piece Pliers Set

- Precision machined heat-treated jaws
- Vinyl insulated handles

Includes: 6.5" needle nose; 7.5" lineman's; 8" slip joint; 8" groove joint & cutting pliers



Part No.	Description	1	5
261905CC	Pliers set	\$9.75	\$9.25

Xcelite® Diagonal Cutters



217921CC

217904CC

217955CC

Manufactured from the finest forged alloy steel with polished head and cushion comfort handles.

- Flush cutting edge
- Cutting edges machine ground and electronically hardened for extended life
- Forged alloy steel w/ polished head
- Handle coil springs for fast cutting action
- ESD safe cushion grips for maximum comfort



217867CC

Part No.	Prod. No.	Description	1	10
217921CC	MS54J	4" oval head-flush	\$15.95	\$14.36
217955CC	S475JS	4" relieved head-flush ...	14.95	13.46
217904CC	MS549J	4" tapered head-flush ...	14.95	13.46
217867CC	MS545J	4" slim line tapered head-flush	14.95	13.46

Cutting Pliers

Flush Cut

- Stainless steel
- Side cutting flush cut
- Leaf spring for smooth controlled action



Part No.	Description	1	5
261788CC	Cutting pliers	\$6.95	\$6.55

30-Day Money-Back Guarantee

If you're not satisfied,
we'll take it back!
Details on page 246.

Xcelite® Cutters and Pliers



146712CC (6")

146739CC (4")

146721CC (5")

- Spring returns
- 146712CC: Micro series wire cutter – flush; 6"
- 146739CC: Diag. wire cutter – semi-flush; 4"
- 146721CC: Long needle nose pliers – flat; 5"

Part No.	Product No.	1	10	50	100
146712CC	170M	\$5.75	\$5.19	\$4.69	\$4.19
146739CC	MS54V	13.95	12.95	11.95	10.95
146721CC	MM7776V	16.95	15.95	14.95	13.95

Xcelite® Shearcutter/Pliers Set

- Improved handle grip for control and comfort
- Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L



Part No.	Product No.	1	10	25
152055CC	S2K	\$15.95	\$14.95	\$13.95

4" Diagonal Wire Cutter

- Drop forged steel
- Heat treated
- Vinyl grips
- Spring return action
- Polished head
- Length: 4"



Part No.	Description	1	10	50	100
179901CC	Wire cutter	\$5.49	\$4.94	\$4.45	\$4.00

4.3" Diagonal Wire Cutter

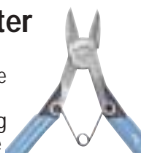
- Cuts component wire up to 1.2mm thick
- Stainless steel
- Durable rubber handles
- Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade



Part No.	Description	1	10	50	100
35481CC	Wire cutter	\$5.59	\$4.99	\$4.55	\$3.99

5" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick and 0.08mm fine wire
- Insulated handles
- Jaws are designed for flush cutting
- 5.0"L x 1.8"W w/ 0.5" cutting blade



Part No.	Mfr. Cross Ref. No.	1	10	25
161411CC	Wire cutter	\$7.49	\$6.74	\$6.07

Heavy Duty Tubing Cutter

- Clever design eliminates spiraling, resulting in straight clean cuts with no burrs
- Cuts copper, brass, aluminum tubing and thin-wall conduit up to 1-1/8" diameter
- Extra cutter wheel stored in body
- Lightweight aluminum body and knob
- Telescopic wheel-feeding mechanism keeps turning radius constant
- Length: 4.8"



SALE

Part No.	Description	1	5
227475CC	Tubing cutter	\$19.95	\$17.95

5" Wire Cutter/Stripper

- Strips and cuts 20-24 AWG wires
- Insulated grips
- Spring loaded for easy use
- Cutter angled @ 45 degrees for use in tight places
- Size: 5.0"L x 3.0"W



Part No.	Product No.	1	10	50	100
159273CC	HT109	\$5.49	\$4.94	\$4.45	\$4.00

5" Wire Cutter/Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty

78991CC: 10-30 AWG

(screw adjustable)

215888CC: 10-24 AWG

(dial to adjust for wire gauge)



Part No.	Mfr. Cross Ref. No.	1	10	50	100
78991CC	HT108	\$3.95	\$3.49	\$2.95	\$2.59
215888CC	JE-2022C	3.95	3.49	2.95	2.59

6" Wire Cutter/Strippers

- Contoured cushion-grip handles
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W

161226CC: Premium T-5

- 10-18 AWG solid
- Color: yellow

161234CC: Premium T-6

- 16-26 AWG stranded
- Color: red

161218CC: Standard T-6

- 16-26 AWG stranded
- Color: red



Part No.	Prod. No.	Description	1	10
161226CC	ID45-215	T-5 10-18 AWG ...	\$16.75	\$15.91
161234CC	ID45-216	T-6 16-26 AWG	17.79	16.91
161218CC	ID45-121	T-6 16-26 AWG	13.59	12.95

6.6" Wire Stripper

- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W



Part No.	Product No.	1	10	50
159290CC	HT5023	\$9.95	\$8.96	\$8.06

7-in-1 Wire-Handling Tool

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch
- Size: 6.6"L x 3.0"W



Part No.	Prod. No.	Description	1	10	50
18796CC	HT104	10-18AWG	\$4.95	\$4.49	\$3.95
127861CC	HT1042	16-26AWG	5.49	4.94	4.45
127870CC	HT1043	22-30AWG	5.49	4.94	4.45

See page 214 for Molex Hand Crimp Tool and Extraction Tool.

Automatic Wire Strippers

175097CC: Spring load grip

- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

Includes: Wire stopper for desired strip length

202841CC:

- Size: 6.5"L x 3.0"W
- Weight: 0.3 lbs.

237219CC:

- Size: 5.2"L x 2.7"W • Weight: 0.2 lbs.



Part No.	Description	1	10	25
175097CC	Strips 8-22 AWG	\$16.95	\$15.26	\$13.73
202841CC	Strips 3-24 AWG	12.45	11.19	9.95
237219CC	Strips 14-24 AWG	9.95	8.95	8.09

Rotary Coax Cable Strippers

2 and 3 Blade

159118CC (3 Blade):

2 settings RG58/59/62

- For cable sizes 4-10mm

• Size: 4.2"L x 1.3"W

• Color: black

159185CC (2 Blade):

4 settings RG58/59/62/174

- For cable sizes 4-12mm

• Size: 3.9"L x 0.7"W • Color: gray

Includes: Hex key wrench for adjusting blade



Part No.	Product No.	1	10	25
159118CC	HT312B (3 blade)	\$13.95	\$12.56	\$11.30
159185CC	HT332D (2 blade)	13.95	12.56	11.30

Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Push-down locking mechanism
- Size: 8.0"L x 2.0"W • Weight: 0.8 lbs.



Includes: Cut and strip blade

Part No.	Mfr. Cross Ref. No.	1	10
174684CC	TTK071	\$26.95	\$24.26

Telemaster Modular Connector Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high quality connections
- Size: 6.0"L x 2.0"W
- Weight 0.8 lbs.

Includes: Cut and strip blade



Part No.	Product No.	1	10
161091CC	ID30-496	\$39.95	\$35.99

Ratchet Crimp Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs

- Repeatable crimp action for consistent high-quality connections
- Size: 8.5"L x 2.2"W
- Weight: 1.2 lbs.

Includes: Cut and strip blade



Part No.	Mfr. Cross Ref. No.	1	10
174676CC	TTK070	\$39.95	\$35.99

Professional Modular Connector Crimping Tool

- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles • Size: 8.2"L • Weight: 1.2 lbs.



Part No.	Product No.	1	10	25
181147CC	HT200	\$54.95	\$49.49	\$44.55

Modular Connector Crimping Tool Set

- 8" metal modular crimping tool
- Cuts, strips and crimps
- Crimps RJ11 and RJ45 plugs
- Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.

Includes: 90 modular plugs, 40 pcs. 4P4C, 30 pcs. 6P6C, 20 pcs. 8P8C



Part No.	Product No.	1	10	25
73496CC	HT2000B	\$74.95	\$67.49	\$60.75

Metal Modular Connector Crimping Tool

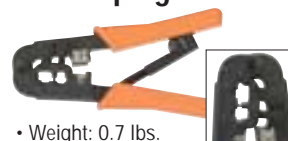
- Cable stripper and wire cutter
- Size: 8.0"L
- Weight: 1.8 lbs.
- Crimps 6P and 8P plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)



Part No.	Description	1	10	25
114526CC	RJ11/RJ45	\$24.95	\$22.49	\$20.25

Ratcheted Modular Connector Crimping Tool

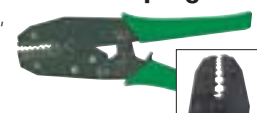
- Insulated grip
- Ratcheted type
- Metal • 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C) • Weight: 0.7 lbs.



Part No.	Description	1	10	25
159311CC	RJ45/11/12	\$21.95	\$19.95	\$17.95

Ratcheted BNC Crimping Tool

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- Hex sizes: 0.043", 0.068", 0.100", 0.137", 0.213", 0.255"
- Size: 8.5"L x 2.5"W
- All steel construction
- Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
114534CC	HT-336G	\$23.95	\$21.59	\$19.45

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today.

Hex Crimp Tools

- Use with RG-58 and RG-59 connectors with up to a 3/8" ferrule

261745CC: 1.7mm standard crimp for crimping center conductor on BNC & TNC connectors; up to 3/8" ferrule
261737CC: Ferrules up to 1/2"



Part No.	Description	1	5
261745CC	Hex crimp tool (3/8")	\$19.75	\$18.55
261737CC	Hex crimp tool (1/2")	19.49	18.29

Solderless Terminal Crimping Tool

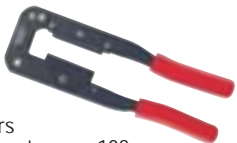
- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W



Part No.	Product No.	1	10	25
72995CC	HT303	\$18.95	\$17.06	\$15.35

IDC Connector Crimping Tool

- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Crimp insulation displacement connectors
- Use for IDC socket connectors, pg 102
- Size: 9.2"L x 3.0"W • Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
73251CC	HT214	\$15.95	\$14.39	\$12.95

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W



Part No.	Product No.	1	10	25	100
99442CC	HT202A	\$9.49	\$8.55	\$7.69	\$6.95

D-Sub Crimping Tool

20-28 AWG

- Crimps D-sub pins and sockets
- For use w/ P/Ns 43377CC, 43369CC, pg 91 & 100765CC, pg 101
- Size: 7.0"L x 4.0"W



Part No.	Product No.	1	10	25
159265CC	HT213	\$10.95	\$9.89	\$8.89

Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required • Size: 7.8"L



Part No.	Prod. No.	Description	1	10	25
18809CC	HT204	Nibbling tool ...	\$7.95	\$7.16	\$6.44
29330CC	HT204B	Replcmnt bit	4.49	4.04	3.64

Compression Multi-Tool

Designed to compress ferrules of "F"/BNC/RCA connectors. Black oxide steel frame w/ interchangeable die sockets, ratchet mechanism w/ manual release disengages after a complete cycle securing a fully compressed ferrule. Integrated coax cutter for cutting cables to appropriate lengths.



Part No.	Description	1	5
261761CC	Compression multi-tool	\$35.65	\$33.85

"F" Connector Compression Tool

Compresses RG-6 and RG-59 Snap-N-Seal type connectors.

- Length: 5"



Part No.	Description	1	5
261753CC	Compression tool	\$29.95	\$28.45

8-Piece Fold-Up Torx Key Set

- 3.7" long handle
- Torx bits: T9, T10, T15, T20, T25, T27, T30, T40 • Size: 3.7"L x 1.2"W



Part No.	Description	1	10	100
176006CC	Torx key set	\$10.49	\$9.44	\$8.50

25-Piece Hex Key Set

- 12-piece SAE long arm with sizes from 1/16" to 3/8"
- 13-piece Metric short arm with sizes from 1.5mm to 1cm



Part No.	Description	1	5
261825CC	Hex key set	\$6.95	\$6.59

Rivet Tool

- Sets 3/32", 1/8", 5/32" & 3/16" rivets without adjustments.

Simply change the appropriate nozzle, slip the rivet into the pre-drilled hole, and you have a perfect fasten. Spring-loaded handle for automatic ejection of the mandrel.



Part No.	Description	1	5
226114CC	Rivet tool \$5.95	\$5.59	\$5.29
226288CC	1/8" x 1/4" long rivet (100 pk)	2.19	1.99
226296CC	3/16" x 1/4" long rivet (100 pk)	3.49	3.29

1/4-Watt & 1/2-Watt Resistor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in .05" increments
- Excellent for capacitors also
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"
- Size: 5.4"L x 1.5"W



Part No.	Description	1	10	50
106884CC	1/4W & 1/2W ..	\$2.99 \$2.79	\$2.65	\$2.52

See page 214 for Molex Hand Crimp Tool.

9-in-1 Pocket Multi-Tool

- Bottle opener • Metal file
- Flashlight • Knife blade
- Nail pick • Wire cutter
- 2 handyman/long-nose pliers
- Phillips screwdriver
- Folded size: 2.75"L



Part No.	Description	1	5
227264CC	9-in-1 pocket multi-tool	\$6.29 \$4.39	\$3.99

Multi-Tool Storage Rack

Organize and store 106 of the most common tools in 24" of wall space. Made of durable plastic material, it easily mounts on a wall with the included screws.



Part No.	Description	1	4	8
239353CC	Storage rack	\$5.99	\$5.49	\$4.99

Heavy Duty Staple Guns

The standard stapler is perfect for contractors, home do-it-yourselfers, and specialty trade applications. We also offer the cable tackers that are ideal for a wide variety of applications such as telephone wire, cable TV, hi-fi systems, alarm systems, intercommunications and general electrical contract work. Both are made of durable nickel-plated steel for heavy-duty use. Rubber grip assures comfortable operation.



- Handle locking • Easy rear loading
- Adjustable high impact tension knob
- Hand stop for safe stapling control
- Visual reload window & rear loading

227969CC: T-50 Staple Gun

- Handles 5/16"; 3/8", 1/2", & 9/16" staples
- Use T-50 type staples, below

242878CC: Cable Tacker Gun

- 4.8mm maximum cable diameter, 1/4" width
- Use P/Ns 244988CC & 245008CC tackers, below

242886CC: 4-in-1 Staple/Tacker/Nail Gun

- Handles T-50 staples; T-25 cable tackers; 14mm long pin nails; 12-14mm long brad nails

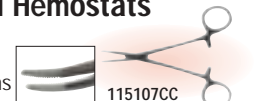
Part No.	Description	1	5
227969CC	T-50 staple gun	\$19.95 \$14.95	\$13.58
242878CC	Cable tacker gun	\$24.95 18.89	17.18
242886CC	4-in-1 staple/tacker gun	\$28.95 18.39	16.71

Staples

Part No.	Description		1	5
230295CC	T-50, 5/16" staples, 1250 ea.	\$2.45	\$2.25	\$2.05
230308CC	T-50, 3/8" staples, 1250 ea.	\$2.75	2.59	2.36
230316CC	T-50, 1/2" staples, 1250 ea.	\$2.89	2.69	2.46
230324CC	T-50, 9/16" staples, 1250 ea.	\$3.15	2.95	2.67
244988CC	3/8"L tackers, 1000 ea.	\$1.69	1.39	1.28
245008CC	9/16"L tackers, 1000 ea.	\$1.89	1.59	1.46
245016CC	T-25, 1/2"L tackers, 1000 ea.	\$1.89	1.55	1.40
245032CC	T-25, 9/16"L tackers, 1000 ea.	\$2.25	1.79	1.64

5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions



Part No.	Mfr. Cross Ref. No.	Description	1	10	50
115107CC	HEMO1	Straight	\$3.49	\$3.14	\$2.83
115115CC	HEMO2	Curved	3.95	3.56	3.20

3-Piece Open-End Ratcheting Wrench Set

The Alden Wrench needs only 30° of pivot angle, rather than 60° required by other open-end wrenches. With the built-in ratchet, you need not even remove the wrench from the head of the bolt or nut. Coupled with its small head sizes and ratcheting action, you can loosen or tighten a bolt faster and in tighter spaces. It is made of stainless steel and is individually hand polished.

- SAE 3/8-7/8, 1/2-9/16, 5/8-11/16

Part No.	Description	1	10	25
223896CC	SAE open-end wrench set	\$29.95		



SALE

4-Piece Adjustable Wrench Set

Heavy-duty carbon steel wrenches with black industrial finish. Constructed with rugged I-beam handle and four-sided jaw design for better fit and strength.

- Length x jaw opening: 12" x 1 3/8"; 10" x 1 3/8"; 8" x 1"; 6" x 1 1/8"

Part No.	Description	1	5
261711CC	Adjustable wrench set	\$9.65	\$9.15



Adjustable Wrench

Made of chrome-plated carbon steel with knurled adjustment screw and angled head. Size: 6"L x 13/16".

Part No.	Description	1	5
261649CC	Adjustable wrench	\$4.15	\$3.69



Combo Wrench Set

- Dropped forged steel
- Combination open closed wrench ends

261489CC: 10 sizes: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, and 11mm

319564CC: 11 sizes: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"

Part No.	Description	1	5
261489CC	10-piece combo wrench set	\$8.49	\$7.99
319564CC	11-piece combo wrench set	7.99	7.59



NEW

Combination Wrenches

Made from hardened, tempered, drop forged chrome vanadium steel. These wrenches have a straight open end and a 120° offset bi-hexagonal ring.

Part No.	Description	1	5
261702CC	9/16" wrench	\$6.39	\$6.09
261690CC	1/2" wrench	6.19	5.89
261681CC	7/16" wrench	5.69	5.39



2-Piece Tweezer Set

- PVC insulated handles
- Serrated tips for parts handling
- Bent tip and straight rounded tip (wide tip)
- Length: 5.8"



Part No.	Description	1	10	25
253180CC	Tweezer set	\$2.99	\$2.69	\$2.45

4-Piece Steel Tweezer Set



- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	50
107355CC	4-piece tweezer set	\$7.95	\$6.95	\$5.95

12-Piece File Tool Kit

- Fine and coarse file assortment for metal and wood
- 3-piece metal flat; 2-piece metal triangle; 1 each wood round; metal round; wood half-round; metal half-round; metal/wood half-round; and 2 detachable handles

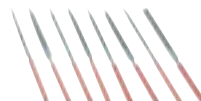


SALE

Part No.	Description	1	5
233314CC	12-piece file kit	\$14.95	\$12.29

Steel File Sets

- Strong tool steel
- 100360CC: 8-piece (5.65"L)
- 1 ea. 0.15"Dia., 0.13"Dia., 0.12"Dia., 0.11"Dia. and four 0.22"Dia.



- 202833CC: 6-piece (5.5"L)
- 1 ea. 0.12"Dia. (round), 0.11"W (triangle), 0.10"W (square), 0.20"W (half-round) and two 0.2"W (flat)

Part No.	Mfr Cross Ref. No.	Description	1	10
100360CC	FS108F	8-piece file set	\$9.49	\$8.54
202833CC	08110	6-piece file set	\$1.39	.75

SALE

Automatic Center-Punch Tool

Adjustable

- Precision instrument
- Alloy steel point
- Knurled steel body
- Size: 5.0"L x 0.5"Dia.



Part No.	Description	1	10	50
160282CC	Center punch tool	\$5.95	\$5.39	\$4.85

T-Handle Reamer Tool

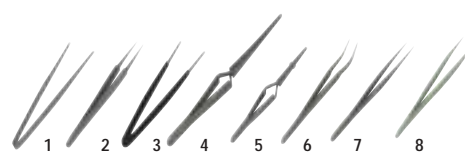
Excellent for aluminum chassis work

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long



Part No.	Description	1	10	25
151749CC	T-handle reamer tool	\$7.95	\$7.49	\$6.95

Tweezers



- 253163CC: Straight, round tapered, wide-point tip
- 252929CC: Straight round tapered, fine-point tip, stainless steel
- 253121CC: Wide-tip, insulated
- 252945CC: Self-closing reverse-action tweezers; wide point tip; stainless steel
- 252937CC: Self-closing reverse-action tweezers; medium point tip; stainless steel
- 253091CC: Curved fine-point tip
- 252911CC: Straight fine-point tip
- 253112CC: Fine-point tip, insulated, anti-static

Part No.	Length	Photo	1	10	25
253163CC	4.5"	1	\$0.99	\$0.89	\$0.79
252929CC	4.75"	2	2.25	1.99	1.79
253121CC	4.6"	3	1.49	1.35	1.25
252945CC	6.6"	4	2.59	2.35	2.09
252937CC	4.3"	5	2.25	1.99	1.79
253091CC	4.6"	6	2.25	1.99	1.79
252911CC	4.75"	7	2.25	1.99	1.79
253112CC	4.75"	8	2.25	1.99	1.79

Strip-Wrap-Unwrap Tool

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 78 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections
- 4.5" long

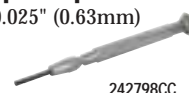


Part No.	Mfr. Cross Ref. No.	1	10	25
34585CC	HSM30 (Modified)	\$49.99	\$44.99	\$39.99
236785CC	HSR30 (Regular)	29.95	26.95	23.95

30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool have bare wires.

- Knurled handle for easy grip
- 5" long



Part No.	Description	1	10	25
242798CC	Tool (Regular)	\$17.95	\$16.15	\$14.55
242798CC	Tool (Modified)	19.95	17.95	16.15
242827CC	Replace tip for 242801CC	8.49	7.65	6.89
242819CC	Replace tip for 242798CC	9.49	8.55	7.69
242835CC	Replace stripper assembly	5.49	4.95	4.45

IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.

- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic
- Size: 3.3"L x 1.5"W x 0.4"H



Part No.	Description	1	10	100
99362CC	IC straightener	\$6.95	\$6.26	\$5.63

For Tool Kits and Tool Cases see pages 215 - 216.

SurePunch™ Series Punchdown Tools

Terminates and cuts telephone wire and data cable into 66 and 110 termination panels.

- Cushion grip, molded to the shape of your hand, for comfort and a sure, non-slip hold
- For 22-28 AWG solid or stranded wire
- Blades twist and lock into place
- Length (with blade): 8.0" • One-year warranty

230391CC: 110/66 combo w/ reversible cut-only blade
230383CC: 110 reversible cut & punch/punch-only blade
230375CC: Both 110 & 66 reversible cut & punch/punch-only blades

Part No.	Product No.	1	5
230391CC	3571	\$51.25	\$48.69
230383CC	3572	51.25	48.69
230375CC	3579	58.85	55.91

SurePunch™ PRO Punchdown Tool

With 110/66 Combo Blade & Clip-On Light

The **FIRST** and **ONLY** punchdown tool to have a detachable light.

Built into the handle is a hook to feed wires through holes and a pick to separate wires.

- Adjustable HI/LO spring compression
- Detachable light with long-life 2200mcd LED
- Finger grips and non-slip rubber-embedded cushion handle for comfort • Length (tool only): 7.0"
- Blades twist and lock into place
- 10-year warranty on blade; one-year on tools

Part No.	Product No.	1	5
230359CC	3588	\$65.49	\$62.23

Non-Impact 110 Punchdown Tool

Cut and Punch

Terminates and cuts telephone and data wire into 110 terminating panels.

- Non-impact, low-cost • 22-28 AWG
- Solid or stranded, single insulation wire
- Comfortable rubber grip handle • Length: 4.0"

Part No.	Product No.	1	5
230367CC	3580	\$10.29	\$9.78

Impact Punch-Down Tool

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable spring-loaded impact mechanism and spare storage blade in the handle.

- One-year warranty

124142CC: For 66-type bifurcated terminals

• Size: 7.0"L x 1.4"W x 1.1"H

124151CC: Blade for 110-type terminals

Part No.	Description	1	10
124142CC	# 3527 Tool with 66 blade ...	\$49.35	\$45.00
124151CC	110 blade	19.95	17.95

"GripP-STRIPPER" Wire Cutter/Stripper

Two tools strip & cut the most common wire and cable types: electrical wire, hook-up wire, multi-conductor cable, and flat cables.

- The tool head and handles are at optimum 22° angle
- Non-scoring strip and smooth wire cutting
- Features screw cutter and wire loops embedded in frames • Gripping jaws on front of tool
- Size: 7.1"L x 2.3"W x .65"D • One-year warranty

Part No.	Product No.	Description	1	5
230463CC	1117	For 10-22 AWG ...	\$13.95	\$13.26
230471CC	1118	For 20-30 AWG	13.95	13.26

Data SureStrip™ Universal Cable Cutter/Stripper

This multi-purpose tool is an easy-to-use universal cable cutter and stripper for data, telephone, and network installations.

- Cuts and strips multiple cable types: 4/6/8-conductor flat satin cables; 4/6/8-conductor UTP/STP data cables, 25-pair UTP/STP data and telephone cables; multi-conductor round bundled cables of up to 0.5" diameter; 8-14 AWG wire
- Fully adjustable with simple thumb screw
- Length: 4.5" • One-year warranty

Part No.	Product No.	1	5
230447CC	1116	\$18.89	\$17.95

Cable Slitter/Stripper

AM25 Slitter with 2109 blade

Strips and slits round cables with PVC, Teflon, and THNN insulation

from 0.18"-1.0" diameter.

- Adjustable cutting depth to 0.18" • Length: 5.3"
- Swivel blade for circular, longitudinal & spiral cuts
- Cable holding clip with integrated edge for removing slit insulation • Spare blade in handle
- Lifetime tool warranty; one-year on blade

Part No.	Prod. No.	Description	1	5
230404CC	1820	Cable slitter/stripper	\$37.95	\$36.05
236769CC	2109	Blade for 1820	13.39	12.75

Impact Punch-Down Tool

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade

175071CC: Punch-down tool with blade

- For 66-type terminals

• Size: 5.2"L x 1.5"W x 1.0"H

175089CC: Punch-down blade

- Blade for 110-type terminals

Part No.	Description	1	10
175071CC	Tool with 66 blade	\$34.95	\$31.46
175089CC	Punch-down blade 110	14.95	13.49

RG59/6/RG6 Quad CATV "F" Coaxial Cable Stripper

Easily removes the outer jacket, shield braid, and inner dielectric in one single step.

- Self-regulating tension
- Adjust cutting depth on each blade for varying cable thickness with the included hex key
- Pre-set for common strip lengths
- For RG59/6/RG6 Quad CATV "F"
- Length: 4.3" • One-year warranty

Part No.	Product No.	1	5
230439CC	1257	\$16.09	\$15.29

CrimpALL® Crimpers for RG58/59/62AU, RJ45 & CATV "F"

- Fully-ratcheting crimp cycle with built-in safety release
- Soft-rubber embedded handles

- Rugged, double-plated jaw, designed to increase life span
- Higher crimp force produced with less hand force
- No break-over hand force – less effort by the user to make the last click before making a complete crimp, the CrimpALL does all the work
- EZI-Change™ die screws makes changing dies quick and easy • Length: 9.9" • Weight: 1.3 lbs.

230341CC: For RG58/59/62AU with 2034 die

230332CC: For RJ45 (8P8C) with 2061 die

230455CC: For CATV "F" and RJ45 with 2687 die

Part No.	Product No.	1	5
230341CC	8001	\$58.95	\$55.99
230332CC	8030	58.95	55.99
230455CC	8045	65.99	62.70

Crimpers for Twisted Pair Cable and BNC/TNC

- Fully-ratcheting cycle with built-in safety release
- EZI-Change™ die screws
- For RJ45 (8P8C) crimps 22-28 AWG flat/round, solid/stranded wires
- For 2 or 3 piece BNC/TNC connectors crimps RG58/RG59/RG62AU cables
- Length: 8.9"

- 230421CC:** Twisted pair crimper with 2061 die
- Crimps 22-28 AWG flat/round, solid/stranded wires
- 230412CC:** BNC/TNC crimper with 2034 die
- Crimps RG58/59/62AU cables

Part No.	Prod. No.	Description	1	5
230421CC	1307	For RJ45 (8P8C)	\$49.29	\$46.83
230412CC	1317	For 2 or 3-pcs. BNC/TNC	49.29	46.83

Corporate Customers

Even lower OEM pricing for larger orders!

Call 1-800-831-4242 for details today.



See pages 209 – 210 for our complete selection of Cutters/Strippers.



Trimmer Potentiometer Adjustment Pocket Tool

- Glass-filled body
- Stainless steel blade
- Size: 5.2"L



Part No.	Description	1	10	100
153314CC	Trimmer tool	\$1.35	\$1.22	\$1.09

Crimp Pin Extraction Tools

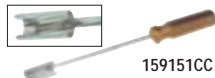
- Easily extract 0.093" locking pins from connectors
- Heavy duty metal
- Precision design • Length: 5"
- See crimp pins on pg 95 (42729CC and 42649CC)



Part No.	Prod. No.	Description	1	10	25
131887CC	HT319C	Male tool for 42729CC	\$10.95	\$9.86	
131879CC	HT319B	Fem. tool for 42649CC	10.95	9.86	

BNC Connector Removal Tools

- For deep chassis removal
- Allows access to hard-to-reach places



Part No.	Product No.	Length	1	10	25
159151CC	HT2206	6"	\$8.49	\$7.64	\$6.88
152047CC	HT2212	12"	14.99	14.25	13.53

D-Sub Pin Insertion/Extraction Tool

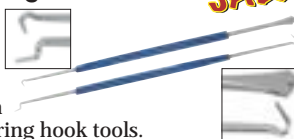
- Insertion/extraction tool: red/white plastic body; exchangeable tips



Part No.	Description	1	10	100
19094CC	Insert/extract tool	\$2.79	\$2.49	\$2.15

Spring-Hook Tools **SALE**

Grab or place in position springs and wires in those hard-to-reach areas with these 8" long spring hook tools.



Part No.	Description	1	5
226042CC	Spring hooks	\$5.49	\$5.22

Fishing for Savings

If you've ever considered purchasing a steel fish tape, you've probably had second thoughts because of the seemingly high cost. But as you know, the right tool can save lots of time, and that means further savings.

Fish tapes are no exception to the rule. They save significant amounts of time. They can also prevent the installer from cutting holes in walls which are costly to repair.

If you install manufacturing equipment or develop large systems, consider having a fish tape in your tool arsenal. They'll save you time, and you'll find we have the lowest prices around!



Practical Practices
Money Saving Tips for the Engineer

Steel Fish Tapes

Designed specifically to make the retrieval of wires quick and easy.

- Impact resistant yellow ABS case won't rust or dent
- Finger grips around reel to ensure easy control
- Trigger provides constant-pressure tension while retracting



Part No.	Length	1	10	25
217470CC	50'	\$24.95	\$23.70	\$22.52
217496CC	200'	27.79	29.45	26.74

33' Measuring Tape

Retractable measuring tape's case has a rubber finish for easy grip and yellow contrast for easy visibility.

- 1" wide
- Metric and inches with 1mm and 1/16" scales
- Triple riveted magnetic end hook
- Bottom & side buttons for temporary tape lock
- Front thumb lock for permanent locking of tape measure • Belt clip and strap

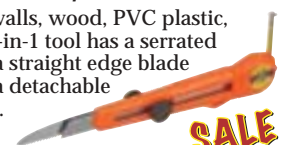


Part No.	Description	1	5
261833CC	Measuring tape	\$9.35	\$8.49

3-In-1 Tool Measuring Tape, Knife, and Saw

Cut through drywalls, wood, PVC plastic, and paper. This 3-in-1 tool has a serrated saw on one side, a straight edge blade on the other and a detachable 6' measuring tape.

- Length: 8.4"



Part No.	Description	1	10
218641CC	3-in-1 tool	\$3.85	\$3.47

6" Drywall Saw

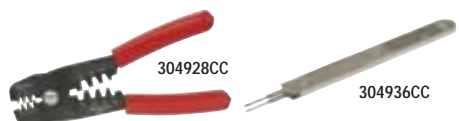
Ideal for cutting holes in drywall.

- Hardened tempered steel blade
- Sharp tip for plunge cuts
- Hard plastic handle



Part No.	Description	1	5
224004CC	6" drywall saw	\$1.95	\$1.85

Hand Tools for Mini-Fit Jr.



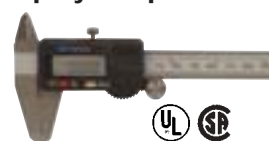
304928CC: Accepts wire range from 14-24 AWG

Part No.	Product No.	Description	1	5
304928CC	63811-1000	Crimp tool	\$42.99	\$39.99
304936CC	11-03-0044	Extraction tool	19.99	18.99

Digital Display Calipers

Metric or Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- Calipers measure to 6 inches/150mm
- One-year warranty



Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783CC, pg 169)

Part No.	Description	1	10	25
127482CC	Digital disp. calipers	\$64.95	\$58.46	\$52.61

Metal Dial Calipers

Metric or Inches

- For accurate measurements every time
- Measures outside, inside and depth
- Easy-to-read dial gauge
- Length: 6" (150mm)
- Materials: metal • Color: silver



Includes: Fitted plastic storage case

Part No.	Description (min. reading)	1	10	25
116134CC	Metric (.02 mm)	\$29.95	\$26.96	\$24.26
116126CC	Inches (.001 inch)	29.95	26.96	24.26

Magnetizer/Demagnetizer

Magnetize tips of screwdrivers for easy pick-up of small metal objects; demagnetize tips to prevent electrostatic discharge that will damage electronic components.

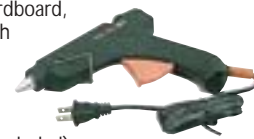
- Size: 2.0"L x 2.0"W x 1.2"D



Part No.	Description	1	5
239530CC	Magnetizer/Demagnetizer	\$6.99	\$6.65

Glue Gun and Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included)
- Size: 7.3"L x 6.3"W



Part No.	Description	1	10	25
72696CC	Glue gun	\$9.95	\$8.96	\$8.06
78633CC	Glue sticks (6/pk)	3.15	2.84	2.55
176292CC	Glue sticks (10/pk)	4.95	4.29	3.79

Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H

Includes: 13 types of blades



Part No.	Description	1	10	25
72768CC	13 blade knife set	\$10.95	\$9.86	\$8.87

Sale items highlighted in yellow.

Jameco Special Values!

Great quantity discounts highlighted in green.

Professional Electronic Technician Tool Kits for Every Situation!

25-Piece Field Repair Tool Kit

Two-in-one design allows user to carry a tool case and a briefcase in one. Features a separate case for tools that attaches to the briefcase with zippers.

- In addition to the tools listed in the matrix below, the kit includes:
 - 5" snipe nose pliers
 - Alignment driver
- Size: 14.2"W x 11.0"D x 4.7"H • Weight: 6.6 lbs.



Part No.	Description	1	5
218211CC	Field repair tool kit ...	\$54.95 \$45.45	\$41.32

27-Piece Technician's Tool Kit

All the essential technician's tools in a durable canvas carrying case.

- In addition to the tools listed in the matrix below, the kit includes:
 - 5" precision range side cutting pliers
 - 5.3" precision range long nose pliers
 - Solder wick
 - Alignment driver
 - Nut screwdriver (1/4")
- Size: 16.2"W x 13.0"D x 3.0"H • Weight: 7.1 lbs.



Part No.	Description	1	5
218229CC	Technician's tool kit	\$94.95	\$85.46

28-Piece Cellular Phone Services Tool Kit

This kit is perfect for mobile phone repair.

- In addition to the tools listed in the matrix below, the kit includes:
 - 4" micro cutting pliers
 - 5" snipe nose pliers
 - Hot air tip
 - Self igniting micro torch
 - S-needle tip
- Size: 11.9"L x 9.8"W x 1.9"H • Weight: 3.2 lbs.



Part No.	Description	1	5
218202CC	Cellular phone tool kit ...	\$46.59 \$43.19	\$39.26

55-Piece Tech Tool Kit

An assortment of tools for general & precision work for technicians, engineers, students, etc.

- In addition to the tools listed in the matrix below, the kit includes:
 - Screwdriver handle
 - 6-piece mini-hammer set
 - 5 piece of double edge blade
 - PLCC extraction tool
- Carrying case has outer velcro pockets to store paperwork, etc.
- Complete your assortment with a multimeter (See pages 192-195)
- Size: 17.6"L x 12.8"W x 4.0"H • Weight: 9.2 lbs.



Part No.	Description	1	5
136311CC	55-piece tool kit	\$124.95	\$112.46

51-Piece Tech Tool Kit

Essential kit for electronic machine maintenance and repair jobs!

- In addition to the tools listed in the matrix below, the kit includes:
 - 2 nut drivers
 - Solder pen
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H • Weight: 10.4 lbs.



Part No.	Description	1	5
26681CC	51-piece tool kit	\$94.95	\$75.95

57-Pc. Master Electronics Tool Kit

Simply every tool needed for field repair or installation. All in a handsome lockable case, with room for spare parts or special equipment.

- In addition to the tools listed in the matrix below, the kit includes:
 - 5" & 6" side cutter
 - 5" & 6" long nose pliers
 - 8" combination pliers
 - 9.5" water pump pliers
 - Testing driver
 - Alignment driver
 - Solder wick
 - Parts tube
 - PVC insulated tape
 - 5-piece file set
 - Oil can
 - 6" stainless scissors
 - Carpenter hammer
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.



Part No.	Description	1	5
218245CC	Master electronic tool kit ...	\$124.95	\$117.95

100-Piece Professional Electronics Tool Kit

Kit for field technicians and engineers!

- In addition to the tools listed in the matrix left, the kit includes:
 - Computer/polarity circuit tester
 - Mini vacuum cleaner
 - Cassette head cleaning fluid
 - 3.6V cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.



Part No.	Description	1	5
242851CC	100-piece tool kit	\$199.95	\$189.95

114-Piece Tech Service Tool Kit

- In addition to the tools listed in the matrix left, the kit includes:
 - 40-pc socket pack
 - 6" side cutter
 - 6" long nose plier
 - 6" slip joint plier
 - carpenter hammer
 - 3 piece trimmer set
 - stainless steel spring hook
 - solder wick
 - 8" combination plier
 - 2 removable pallets
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.



Part No.	Description	1	5
149024CC	114-piece tool kit	\$279.95	\$251.99

Quick-Reference of Professional Tool Kit Contents

Parts included in kits	218211CC	218229CC	218202CC	26681CC	136311CC	218245CC	242851CC	149024CC
3-prong holder					1	1	1	1
Anti-static strap					1		1	1
Brush		1		1	1	1	1	1
Crimping tool		1 (7-way)			1 (7-way)	1	1	1
Desoldering pump	1	1		1	1	1	1	1
Digital Multimeter		1		1			1	
Drill set								1
Files, needle		2-pc		2-pc			6-pc	5-pc
Flashlight		1			1	1	1	1
Forceps								1
Heat sink					1	1		1
IC extractor	1	1			1	1		1
Inspection mirror						1		1
Measuring tape, 10-foot	1			1		1		1
Pliers, 8" lineman	1 (6")				1		1	
Pliers, bent needle nose				1	1	1	1	1
Pliers, diagonal cutter	1			1	1		1	1
Pliers, flat nose				1	1		1	1
Pliers, needle nose								
Pliers, snipe nose			1					1
Scissors				1		1	1	
Screwdriver set	6-pc	7-pc	12-pc	8-pc	3-pc	8-pc	12-pc	9-pc
Screwdrivers, precision			2-pc	6-pc	6-pc	6-pc	6-pc	6-pc
Solder core	1	1	1		1	11	1	1
Soldering aid kit, 3-pc			1 (6-pc)	1	1	1	1	1
Soldering iron	1 (30W)	1 (30W)		1	1 (30W)	1 (30W)	1 (30W)	1 (25W)
Soldering stand		1		1		1	1	
Tape, electrician		1					1	1
Tweezers	1	1	1	1	2	1	1	1
Utility components box		1		1		1	1	1
Utility knife	2-in-1	1		1	1	1	1	
Wire stripper								1
Wrench, adjustable	1	1			1	1	1	1
Wrench, hex key	7-pc	7-pc		7-pc	7-pc	7-pc	7-pc	7-pc
Wrench set						6-pc	5-pc	10-pc
Total Pieces	25	27	28	51	55	57	100	114
Price	\$45.45	\$94.95	\$43.18	\$94.95	\$124.95	\$124.95	\$199.95	\$279.95

Economy Tool Kits for Every Budget!

8-Piece Compact Tool Kit

The perfect size and tools for quick repairs.

- 5" side cutter
- 5" long nose pliers
- PRO-SOFT 3 x 75mm slotted screwdriver
- PRO-SOFT #0 x 75mm Phillips screwdriver
- Stainless tweezers
- Solder core • Desoldering pump
- Portable gas soldering iron with torch tip
- Size: 8.1"L x 5.7"W x 1.4"H • Weight: 1.2 lbs.



New Lower Prices

Part No.	Description	1	5
218181CC	8-piece compact tool kit	\$16.39	\$13.26

11 & 12-Piece Lightweight Computer-Service Tool Kits

- Both kits include:
 - 2 nut drivers: 3/16", 1/4"
 - 3-claw parts holder
 - 1-pc hex key wrench
 - IC extractor
 - 4-pc screwdriver set
 - Tweezers



167206CC

- 167206CC: 11-Piece Tool Kit
- In addition this kit includes:
 - Clear components, tube holder
- Size: 8.5"L x 5.9"W x 1.3"H
- Weight: 1.1 lbs.



14189CC

- 14189CC: 12-Piece Tool Kit
- In addition this kit includes:
 - 14-16 pin IC inserter/straightener
- Size: 9.0"L x 5.8"W x 1.3"H • Weight: 1.2 lbs.

Part No.	Description	1	10	25
167206CC	11-piece tool kit	\$12.95	\$11.49	\$9.95
14189CC	12-piece tool kit	16.95	15.26	13.73

20-Piece SAE Computer Tool Kit

- The kit includes:
 - 1-pc hex key wrench
 - 30W soldering iron
 - Adjustable wrench
 - Needle nose plier
 - 6-pc screwdriver set
 - 6" solder – Tweezers
 - 8" wire cutter/stripper
 - Clamping tweezers
 - 3-pronged parts retriever
 - Spare parts tube – IC extractor
 - Flashlight with battery – Heavy duty molded case
 - 2 nut drivers (1/4" & 3/16")
- Size: 11.9"L x 9.2"W x 2.0"H • Weight: 3.5 lbs.



Part No.	Description	1	10	100
170966CC	Computer tool kit	\$24.95	\$22.46	\$20.21

24-Piece PC Premium Tool Kit

- 3.2mm x 75mm slotted screwdriver
- #0 x 75mm Phillips screwdriver
- 3 prong holder
- Spring tweezer
- Spare parts tube
- IC extractor • Torch
- Extension bar for ratchet bits
- Adjustable ratchet screwdriver
- Side cutter pliers • Long nose pliers
- 5mm and 7mm slotted bit
- #1 and #2 Phillips bit
- T10, T15, T20, T25, and T30 Torx bit
- 1/4" and 3/16" nut • Socket adapter
- Size: 8.4"L x 5.9"W x 1.4"H • Weight: 1.3 lbs.



Part No.	Description	1	5
226085CC	24-piece premium tool kit	\$19.95	\$18.95

26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter
- T-10, T-15, and T-20 Torx bits • Tweezers
- Driver handle • Compact carrying case
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.



Part No.	Description	1	10	25
170069CC	26-pc. SAE tool set ..	\$17.95	\$16.16	\$13.69

26-Piece Metric Hobby Tool Set

- 6 screwdrivers:
 - Phillips #0, #1, slotted 0.05", 0.08", 0.09", 0.12"
- 10 bits: 5mm, 6mm, #No.1, #No.2, No.1, No.2, T-10, T-15, T-20, socket adapter
- Stainless steel tweezers • Sockets: 5, 6, 8, 10mm
- Extension bar • Handle • 4" side cutter
- 4" long nose pliers • Plastic carrying case
- Size: 6.4"L x 4.1"W x 2.0"H • Weight: 1.2 lbs.



Part No.	Description	1	10	25
99629CC	26-piece tool set	\$9.99	\$9.09	\$8.25

40-Piece Electronic Tech Tool Kit

- The kit includes:
 - Wire cutters/stripper
 - Adapter bit for sockets
 - Pocket clip screwdriver
 - Potentiometer alignment tools
 - T10-T25 reversible Torx screwdriver bits
 - 3/16"-1/2" S.A.E. nut driver sockets
 - 6mm-12mm metric nut driver sockets
 - Slotted and Phillips screwdriver bits
 - 10-pc screwdriver set
 - Extra long 3-claw parts holder
 - IC inserter w/ pin straightener – IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.



Part No.	Description	1	10	25
119183CC	40-piece tool kit	\$21.95	\$19.76	\$17.78

Professional Tool Case

- Aluminum framed
- Padded interior and adjustable dividers (6 sections)
- Detachable tool organizer for easy access
- Color: black with aluminum trimmings
- Size: 18"L x 13"W x 6"H
- Weight: 8.1 lbs.



SALE

Part No.	Description	1	10
149016CC	Professional tool case	\$38.95	\$35.06

Aluminum Tool Case

This heavy-duty case is made of lightweight durable aluminum. A single inside panel and adjustable compartments easily carry hand tools, small soldering equipment, hand-held test equipment, and more.



Part No.	Description	1	5
261884CC	Tool case	\$51.39	\$44.15

Heavy-Duty Tool/Equipment Case

Made of lightweight aluminum, this tool case is designed to take rough field use. Case includes tool pallet, egg carton foam lid, and 2.5" thick pre-cut foam bottom. Ideal for carrying fragile instruments, test equipment, and small hand tools.



Part No.	Description	1	5
261876CC	Tool/equipment case	\$51.39	\$44.15

Kwik Change Tool/Parts Tote

Versatile storage tote for organized storage space. Front drop panel reveals four slide-out storage boxes and includes two interchangeable racks and one double deep rack. Bulk storage beneath lid for larger tools and exterior rack for small tool storage. Ruler on front for added convenience.



Part No.	Description	1	5
261892CC	Tool/parts tote	\$49.85	\$47.35

2-In-1 Zippered Tool Bag

A high-quality tool tote case that can be used as two separate bags or zipped together as one case. The first bag has two large pouches for documents & paperwork or large items. The second bag contains 20 pockets for tools.



Part No.	Description	1	5
261868CC	Tool/tote case	\$24.25	\$22.09

Order Anytime
24x7x365



Phone
1-800-831-4242
Online
www.Jameco.com
Fax
1-800-237-6948

Protective Coiled Grounding Wrist Strap

- Comfortable, adjustable Velcro wrist strap
- The coiled cord has banana plug and alligator clips
- Extended cord: 9' long • Color: black

Includes: 1MΩ resistor for added safety

Part No.	Description	1	10	100
34551CC	Anti-static strap	\$6.49	\$5.85	\$5.29



Conductive Anti-Static Foam and Bags

Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

- For safe storage of static sensitive devices

13864CC: 24.0"L x 12.0"W x 0.25"H

* Prepackaged: order in increments of 5

Part No.	Description	1	5
13864CC	Anti-static foam	\$9.29	\$8.35
78668CC	4" x 6" anti-static bags	*	.19
78650CC	8" x 10" anti-static bags	\$7.79	.69



13864CC



78668CC



78668CC

3M Disposable Anti-static Wrist Strap

Disposable wrist strap for one time use and low durability applications. A hypoallergenic adhesive provides 360° contact with the skin to minimize skin-to-band resistance. The conductive adhesive on the copper foil adheres to any convenient electrical ground. A current limiting resistor is fabricated into the plastic ribbon below the wristband. One size fits all.

- Ship along with components and devices such as integrated circuits and computer peripheral cards

Part No.	Product No.	1	10	25
285456CC	3M 2209	\$1.25	\$1.17	\$1.11



Anti-Static Work Mats

Make your work environment safe from static discharge! These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.



236540CC

Part No.	Dimensions	Wt. (lbs.)	1	10	100
10575CC	11.3" x 22"	0.7	\$9.95	\$8.96	\$8.06
10583CC	19.5" x 23.5"	1.1	\$13.95	\$12.59	\$11.35
236540CC	23.5" x 27.5"	1.4	\$24.95	\$22.49	\$20.19

Soldering Products

300-Watt Solder Pot

Temperature Regulated Between 420°C and 450°C

- HI/LO temperature switch
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057CC or 170464CC, below
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base) • Weight: 5.9 lbs.
- Size: (tub) 2.4"Dia. x 1.6"D • One-year warranty

Part No.	Description	1	10	25
160303CC	300W solder pot ...	\$64.95	\$58.49	\$52.65



600-Watt Solder Pot

Temperature Adjustable

- 2-wire power cord (5'5")
- Temperature: 0°C to 500°C
- Self regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057CC or 170464CC, below
- Size: (unit): 6.8"L x 5.5"W x 2.8"H
- Size: (tub): 3.9"L x 1.6"D • Weight: 7.4 lbs.

Includes: Skimmer and removable dross tray

Part No.	Description	1	10
172275CC	600W solder pot	\$189.95	\$180.45



2000-Watt Solder Pot

- Thermostat control for setting temperature from 50°C to 300°C
- Holds up to 48 bars of P/N 176057CC or 170464CC, right
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- 3 conductor pigtail power cord: 5' long
- Size: (unit): 18.1"L x 11.5"W x 6.0"H
- Size: (tub): 12.0"L x 8.0"W x 2.9"H
- Weight: 23.1 lbs. • One-year warranty

Part No.	Description	1	5
149876CC	2000 watt solder pot	\$399.95	\$359.95



XTRONIC Fume Extractor and Filters

Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan

- Operate continuously providing filtered air • Static ground jack
- Air flow: 115 CFM • Fuse protected
- 120VAC, 60Hz, 22 watt
- Noise: 49dB fan • Aerodynamic hood design for effective removal of solder fumes • Black anodized aluminum case
- Removable carbon-impregnated filter
- Compact size allows use on work bench w/ minimum space • Size: 6.4"W x 4.6"D x 7.9"H
- Weight: 4.6 lbs. • One-year warranty

Includes: Detachable power cord

Part No.	Description	1	10	25
120150CC	Fume extractor	\$58.95	\$52.95	\$47.79
127183CC	Replace. filters (2/pk)	12.95	11.66	10.49



XTRONIC Combination 42-Watt Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temp. control: 500° to 800°F • Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D • Weight: 5.2 lbs.

Includes: Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Product No.	1	10
183169CC	456DLX	\$89.95	\$86.29



Solder Bars

- Used for soldering pots
- Tin/lead: 60/40 & 63/37
- Size: 13"L x 0.9"Dia.

Part No.	Description	Wt. (lbs.)	1	10	25
176057CC	60/40	1.1	\$8.49	\$7.65	\$6.89
170464CC	63/37	1.8	\$10.49	\$9.96	\$9.47



170464CC

Anti-Static Heel Strap

- Discharges static without restricting your mobility
- Ideal for anyone handling static sensitive devices
- Ground strap: 15.5"L



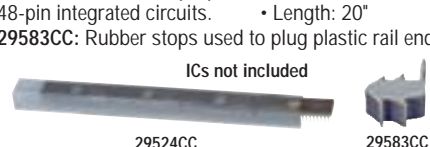
Part No.	Description	1	10	100
100327CC	Heel strap	\$5.49	\$4.99	\$4.55

Anti-Static Plastic DIP IC Storage Tubes and Rubber Rail Stops

29516CC: Thin tube (rail) fits 8, 14, 16, 18, 20 and 22-pin integrated circuits. • Length: 23.75"

29524CC: Wide tube (rail) fits 24, 28, 32, 40 and 48-pin integrated circuits. • Length: 20"

29583CC: Rubber stops used to plug plastic rail ends



ICs not included

29524CC

29583CC

* Prepackaged: order in increments of 10 or 100

Part No.	Mfr. Cross Ref.	Description	1	10	100
29516CC	RIC20	Thin rail	\$0.49	\$0.44	\$0.40
29524CC	RIC220	Wide rail .....	.49	.31	.19
29583CC	RRS	Rubber stop	*	.07	.06

Electric & Manual Desolder Pumps

- Easily disassembled for cleaning
- Replacement tips available



- 19254CC: • UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.

19166CC: Size: 7.8"L x 0.8"Dia.

305218CC/305226CC: Size: 13"L x 1.0"Dia.

Part No.	Description	1	10
19254CC	Electric desolder pump	\$26.95	\$23.95
19166CC	Manual desolder pump	4.95	4.49
305218CC	Manual desolder pump	18.95	17.99
305226CC	Man. desolder pump (ESD safe)	14.75	13.99
19262CC	1 tip for 19254CC	4.95	4.49
22091CC	2 tips for 19166CC	4.49	3.95
307774CC	1 tip for 305218CC	4.55	4.35
307782CC	1 tip for 305226CC	2.39	2.27

Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Shaft diameter: 0.6"
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Weight: 2.0 lbs.



Solder not included

Part No.	Description	1	10	100
169551CC	Spool & iron stand	\$16.95	\$15.29	\$13.75

Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6" • Weight: 1.6 lbs.



Solder not included

Part No.	Description	1	10	100
141760CC	Solder spool stand ...	\$8.95	\$7.95	\$6.95

Visit our website for more products at
www.Jameco.com



60-Watt Analog Display Soldering Station

Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control: 300°F to 850°F
- CMOS devices protected against voltage spikes
- Size: 4.3"W x 6.0"D x 3.4"H • Weight: 4.1 lbs.

Includes: One 1/16" tip (P/N 35115CC, pg 219)

236460CC: Replacement sponge
168583CC: Tip .078" for 168401CC
168591CC: Tip .590" for 168401CC

Part No.	Product No.	1	10	25
236110CC	168-3C	\$89.95	\$79.95	\$72.95
236460CC	78-744615	2.99	2.69	2.49
168583CC	46-060102	11.95	10.79	9.69
168591CC	46-060115	12.95	11.69	10.49

42-Watt Controlled-Output Soldering Station



- Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components • 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates third pin of power cord • Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Includes: Soldering iron and PTA7 tip (below)

Part No.	Prod. No.	Description	1	10
170552CC	WTCPT	Solder station	\$129.95	\$124.95
192161CC	TC201T	Replac. iron	68.95	62.05
192170CC	PTA6	.062" screwdriver tip (600°F)	6.95	6.25
192188CC	PTA7	.062" screwdriver tip (700°F)	5.69	5.15
192196CC	PTA8	.062" screwdriver tip (800°F)	5.69	5.15

Vacuum Pen Tools



- ESD safe body
- Picks up components with weight of 1.1 lbs. or less
- 207239CC: 4 tips and cups
- 207247CC: Aluminum body; 6 tips and cups

Part No.	Description	1	10	25
207239CC	Handivac tool	\$19.99	\$17.99	\$16.19
207247CC	Pen vac tool	37.95	34.25	30.49

Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temperature is electronically controlled from 350°F to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

Includes: ST3 1/8" screwdriver tip, soldering station and manual

Part No.	Prod. No.	Description	1	10
146595CC	WLC100	Soldering station	\$48.95	\$44.09

Weller® Soldering Tips Replacement Tips for WLC100, WP25 & WP23

Part No.	Prod. No.	Description	1	10
146608CC	ST1	Screwdriver tip 1/16"	\$5.95	\$5.35
146616CC	ST3	Screwdriver tip 1/8"	5.95	5.35
192145CC	ST6	Screwdriver tip .031" ...	5.25	4.75
146624CC	ST7	Conical tip 1/32"	5.95	4.95

50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temperature lockout
- Auto power-down after 90 minutes of inactivity
- Temperature range: 350°F to 850°F
- Temp. accuracy: ±9.0°F
- ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Product No.	Description	1	10
217461CC	WES51	Analog	\$115.95	\$105.95
233533CC	WESD51	Digital	158.95	150.99

Weller® Soldering Tips

Replacement Tips for WES51

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Tips also used with WCC100 station
- Additional tips can be special ordered

Part No.	Prod. No.	Description	1	10
16774CC	ETA	Screwdriver 1/16"	\$6.95	\$6.25
16782CC	ETJ	Long screwdriver 1/32"	6.95	6.25
16803CC	ETR	Narrow screwdriver 1/16"	6.95	6.25
16811CC	ETS	Long conical 1/64"	6.95	6.25

65-Watt Soldering Station with Micro Soldering Pencil



Weller®

The micro soldering pencil has the shortest tip-to-grip distance on the market today, giving you excellent control by putting you closer to the work. The heating element is contained in the pencil rather than the tip so you do not throw away a good heater every time you wear out a tip.

- Fast heat-up and thermal recovery
- Tips are secured to the pencil by use of a threaded end, eliminating the use of a barrel nut
- Temperature is reduced to 300°F (150°C) when pencil is not used for 20 minutes. Unit is switched off after 60 minutes of inactivity
- ESD safe to protect sensitive components
- Voltage: 120V input; 24V output
- Temperature range: 150°F-850°F (66°C-454°C)
- Temperature accuracy: ±9°F (±5°C)
- Temperature stability: ±10°F (±6°C)

Includes: WSLPU power unit, WMP soldering pencil with NT1 tip, and WMPH iron stand

Part No.	Product No.	1	5
227408CC	WSL	\$255.95	\$237.95

Weller® Soldering Tips

Replacement Tips for WSL

Part No.	Prod. No.	Description	1	5
233576CC	NT1X	0.8mm bent round ..	\$8.89	\$8.45
233550CC	NTA	0.6mm chisel	7.59	7.25
233568CC	NTB	2.4mm chisel	7.59	7.25
233541CC	NT1	0.25mm micro	7.59	7.25



SMD Rework Station

Engineered to meet the demanding needs of today's electronic industry, technician service/repair centers, and assembly work. With this system, replacement of surface mount devices or dual-in-line components is a snap. It not only increases productivity in SMD assembly repair, but achieves a new standard of quality, superior performance, and ease of operation.

- High-performance, inexpensive, versatile
- Adjustable temperature: 250°C - 450°C (482°F - 842°F)
- Thermocouple sensor for stable temperature
- Long-life ceramic heating element
- Rapid heat-up and recovery
- 40W station, 25W ceramic element
- Size: 7.4"L x 5.0"W x 3.3"H • Weight: 2.6 lbs.

Includes: Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

Part No.	Description	1	10	25
224629CC	Rework station	\$89.95	\$80.99	\$72.85

45-Watt Analog Display Soldering Station

Grounded Soldering Tip

- 500°F to 850°F • Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 7.0"L x 4.5"W x 3.5"H • Weight: 2.5 lbs.

Includes: Manual, soldering iron, stand and two sponges

Part No.	Product No.	Description	1	10	25
229673CC	XYT379-C	45-Watt soldering station	\$59.95	\$53.95	\$48.95
156814CC	XYB01	Sharp conical chisel 1/32" tip	4.95	4.49	3.95
156822CC	XYB04	Conical chisel 1/16" tip	4.95	4.49	3.95
134631CC	SP715	Replacement sponge	2.99	2.69	2.49

60-Watt Soldering Stations

Designed for soldering situations where precise temperature is required for sensitive components.

- Temperature is maintained at ±6°F
- Electronic temperature control from 392° to 878°F
- External calibration port
- CMOS devices protected against voltage spikes
- Power-on and heater-on LED indicators
- Size: 5.1"W x 8.0"D x 4.0"H • Weight: 4.8 lbs.

Includes: One 1/16" tip (P/N 35115CC – below)

Part No.	Product No.	Description	1	10	25
236101CC	XY9-60D/ESD	Digital soldering station – ESD safe	\$109.95	\$99.95	\$89.95
219627CC	XY9-60A	Analog soldering station	99.95	89.95	79.95
168401CC	TWZ50ESD	SMD tweezer iron w/ 0.078" tip	79.95	71.95	64.95
168583CC	46-060102	Tip .078" for P/N 168401CC	11.95	10.79	9.69
168591CC	46-060115	Tip .590" for P/N 168401CC	12.95	11.69	10.49
236460CC	78-744615	Replacement sponge for both stations	2.99	2.69	2.49

60-Watt Desoldering & Solder/Desoldering Stations



- Simple fine tune feature to select within 300–850°F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes

125508CC:

- Size: 9.2"L x 7.2"W x 3.6"H
- Weight: 13.1 lbs.

Includes: XYD12 tip and solder holder

125516CC/223853CC: Size: 11"L x 10"W x 4.0"H; Wt.: 18.1 lbs.

Includes: XYD12 tip, solder holder, tip cleaner and tweezers

223853CC: Dual display of tip temperature with selector switch for °C or °F and read/set temperature

Special 5% Bundle Savings
Complete ISO 9000 digital station – P/N 236101CC & 125508CC
Sold separately \$409.90
Combined: P/N 207263CC
\$388.95

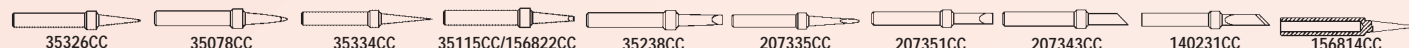
Part No.	Product No.	Description	1	10	25
125508CC	968	Desoldering station	\$299.95	\$269.99	\$242.99
125516CC	988	Solder/desoldering station	399.95	359.99	323.99
223853CC	988D	Solder/desoldering (dual display)	459.95	413.95	372.55
207271CC	TWZ60ESD	SMD tweezer iron with .078" tip	69.95	62.95	56.95
207221CC	D1A60A	Replacement desoldering iron	74.95	67.49	59.95
168583CC	46-060102	Tip .078" for P/N 207271CC	11.95	10.79	9.69
168591CC	46-060115	Tip .590" for P/N 207271CC	12.95	11.69	10.49
236460CC	78-744615	Replacement sponge for all stations	2.99	2.69	2.49

Replacement Sponges for Legacy Models

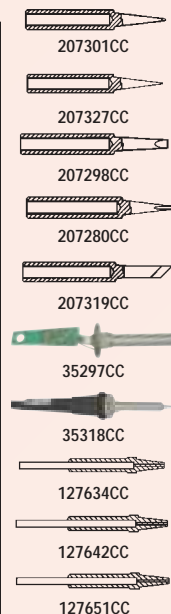
Part No.	Product No.	For Station	1	10	100
134640CC	SP815	168-3C	\$2.99	\$2.55	\$1.95
134631CC	SP715	XY-60D, XY-379 & P/N 229673CC	2.99	2.69	2.49

See page 222 & 224 for Chemicals & other accessories to assist you in your soldering projects.

Tips & Replacement Parts for XYTronic Soldering and Desoldering Products



			For XYTronic Model Numbers (*Legacy Models)														
Part Number	Product Number	Description	136ESD	200CX 168*	200PHG 379	XY960D AESD /DES	960D*	968	988	999SD*	JS259*	168-3C	2680*	Pricing			
															1	10	25
35326CC	XY401	Soldering tip - conical bevel 1/32"		✓	✓		✓	✓			✓	✓	✓		\$4.49	\$3.95	\$3.65
35078CC	XY402	Soldering tip - semi-chisel 1/32"		✓	✓		✓	✓			✓	✓	✓		4.49	3.95	3.65
35334CC	XY403	Soldering tip - conical sharp 1/64"		✓	✓		✓	✓			✓	✓	✓		4.49	3.95	3.65
35115CC	XY404	Soldering tip - conical chisel 1/16"		✓	✓		✓	✓			✓	✓	✓		4.49	3.95	3.65
35238CC	XY405	Soldering tip - semi-chisel wide 1/8"		✓	✓		✓	✓			✓	✓	✓		4.49	3.95	3.65
207335CC	XY406	Soldering tip - long conical chisel 3/64"		✓	✓		✓	✓			✓	✓	✓		2.95	2.69	2.39
207351CC	XY410	Soldering tip - chisel 3/16"		✓	✓		✓	✓			✓	✓	✓		2.95	2.69	2.39
207343CC	XY411	Soldering tip - wedge 3/16"		✓	✓		✓	✓			✓	✓	✓		2.95	2.69	2.39
140231CC	XY430	Soldering tip - SMD flat pack 7/32"		✓	✓		✓	✓			✓	✓	✓		8.95	7.95	7.25
156814CC	XYB01	Soldering tip - sharp conical chisel 1/32"	✓			✓				✓					4.95	4.49	3.95
207301CC	XYB02	Soldering tip - conical semi-sharp 1/32"	✓			✓				✓					4.95	4.49	3.95
207327CC	XYB03	Soldering tip - conical sharp 1/64"	✓			✓				✓					4.95	4.49	3.95
156822CC	XYB04	Soldering tip - conical chisel 1/16"	✓			✓				✓					4.95	4.49	3.95
207298CC	XYB05	Soldering tip - semi-wide chisel 1/8"	✓			✓				✓					4.95	4.49	3.95
207280CC	XYB06	Soldering tip - long conical chisel 3/64"	✓	✓		✓				✓					4.95	4.49	3.95
207319CC	XYB30	Soldering tip - wedge blade 3/16"	✓			✓				✓					8.95	7.65	5.75
35297CC	XY37	Heating element- (nichrome)		✓	✓		✓				✓		✓		20.95	18.95	16.95
35318CC	XY48	Assembly - 60W w/ nichrome heater		✓	✓		✓				✓		✓		30.95	27.95	24.95
127634CC	XYD10	Desoldering tip - 1.0mm (.0394")						✓	✓		✓				8.95	7.95	7.25
127642CC	XYD12	Desoldering tip - 1.2mm (.0472")						✓	✓		✓				8.95	7.95	7.25
127651CC	XYD15	Desoldering tip - 1.5mm (.0586")						✓	✓		✓				8.95	7.95	7.25



Test/Tools



16 to 30-Watt Variable Soldering Iron, Stand & Sponge

116572CC:

• Length: 7.5"

36329CC:

- Black anodized steel base – 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631CC)
- Fits most soldering irons .85" diameter

Includes: Sponge



Part No.	Description	1	10	100
116572CC	Soldering iron	\$16.95	\$15.29	\$13.75
36329CC	Soldering stand	4.95	4.46	4.01
134631CC	Sponge (for P/N 36329CC)	2.99	2.69	2.49



Thermally Balanced 25-Watt Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord
- 25-watt power consumption
- Interchangeable tips (pg 219)
- UL listed • Length: 8.0"
- One-year warranty

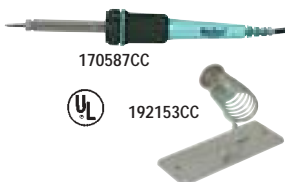
Includes: 1.6mm conical tip



Part No.	Description	1	10	25
129040CC	25W solder. iron	\$11.49	\$10.35	\$9.35

Weller® High-Quality 25-Watt & 35-Watt Soldering Irons

- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar
- Length: 9"
- 120VAC @ 60Hz



Includes: Power cord & ST3 tip (pg 218).

Part No.	Product No.	Description	1	10
170587CC	WP25	25W solder iron	\$32.95	\$31.35
192102CC	WP35	35W solder iron	39.95	35.95
192153CC	PH25	Solder iron stand	16.19	15.35

Check our website for more products
www.Jameco.com

Corporate Customers



Even lower OEM pricing for larger orders!
Call today!
1-800-831-4242

Butane-Powered Cordless Soldering Iron and Tips

This butane-powered soldering iron is designed for many popular cordless applications. Most common are automotive repair, aviation, electrical components, field repair, shrink tubing, television repair and more.

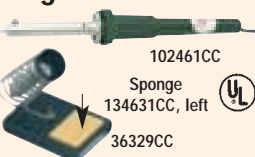
- Cordless, simple operation in the shop or field
- No electrical interference • Automatic ignition
- Up to 200 minutes of operation in a full load
- Soldering temperature range: 240°F to 1000°F
- Torch temperature: 2400°F

Part No.	Prod. No.	Description	1	5
255265CC	PRO-120	Soldering iron	\$44.95	\$42.69
262107CC	S-30	Tip, deflector	1.19	1.09
255273CC	PS-1	Tip, 1/32" flat	8.99	8.75
255290CC	PS-2	Tip, 3/32" flat	8.99	8.75
255302CC	PS-3	Tip, 1/8" flat	8.99	8.75
255311CC	PS-4	Tip, 3/16" flat	8.99	8.75
255329CC	PS-5	Tip, 1/32" chisel	8.99	8.75
255337CC	PS-6	Tip, 3/32" chisel	8.99	8.75
255361CC	PS-9	Tip, hot knife	8.99	8.75
255370CC	PS-10	Tip, hot blower	8.99	8.75

Special! Low-Cost Irons

30-Watt Soldering Iron and Stand

- UL approved
- Ideal for precision work
- 1/4" removable tip
- Length: 8.3"
- 110-120VAC



Part No.	Description	1	10	100
102461CC	30W soldering iron	\$4.99	\$4.49	\$4.04
116020CC	Replacement tips (2)	2.25	1.79	1.25
36329CC	Soldering stand	4.95	4.46	4.01

35-Watt Soldering Iron

- UL approved
- Ideal for maintenance and hobby use
- 0.157" removable tip
- Length: 8.1"
- 110-120VAC



Part No.	Description	1	10	100
208987CC	35W soldering iron	\$2.99	\$2.69	\$2.45
208995CC	Replacement tips (2) .....	.99	.89	.67
209074CC	Solder roll, 8mm (.031")	5.49	4.89	3.95

Economical, High-Performance Soldering Irons

High-quality soldering irons that are suitable for both professional and do-it-yourself applications.

- 25W, 40W, & 60W • Length: 9"
- 120VAC; 6' cord with 3-prong plug
- Tips for 224611CC/224602CC: 226000CC chisel; 226018CC conical
- Tips for 195223CC: 226026CC chisel; 226034CC conical

Part No.	Product No.	1	10	25
224611CC	200PHG-25W	\$7.95	\$7.15	\$6.45
224602CC	200PHG-40W	\$9.95 8.95	8.06	7.25
195223CC	200PHG-60W	13.95	12.49	12.11
226000CC	44-240517 tip .....	.95	.85	.79
226018CC	44-240513 tip .....	.95	.85	.79
226026CC	44-240617 tip	1.95	1.79	1.59
226034CC	44-240603 tip	1.95	1.79	1.59



Weller® Cordless Soldering Iron Kit

- Self igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting



Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Prod. No.	Description	1	5
152207CC	PSI-100K	Tool kit	\$79.95	\$75.95

WAHL® Cordless Soldering Iron

The #1 choice for field service soldering!

IsoTip® Power Pro Model #7904

- 900°F tip temperature • LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron • Weight: 1.1 lbs.

Includes: Soldering iron, recharging stand, NiCAD battery pack, and tips

Part No.	Description	1	10
132783CC	Power Pro cordless iron	\$61.95	\$58.85

SMD Tweezer Iron

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Max. temp.: 760°F
- Heater insulation exceeds 100MΩ • 120VAC
- Heater power consumption: 35W each



Includes: 0.095" tip

Part No.	Description	1	10	25
168410CC	Tweezer iron	\$59.95	\$53.95	\$48.95
168583CC	Tip .078"	11.95	10.79	9.69
168591CC	Tip .590"	12.95	11.69	10.49

Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling maximum tip temperature
- Nominal heat-up time with 700°F tip is 110 seconds
- 120VAC @ 60Hz input
- Length: 6" • Weight: 0.7 lbs.



Includes: CT6F7 (0.375" screwdriver tip; 700°F)

Part No.	Prod. No.	Description	1	5
192081CC	W100PG	Solder iron	\$62.95	\$59.79
192090CC	CT6F7	.375" scrdvr tip	8.59	7.75

Hot Air SMD Rework Station with Digital Display

The Hot-Air SMD 850D is engineered to meet the demanding needs of today's electronic industry; technicians, service/repair and assembly rework. The system not only increases productivity for SMD assembly and repair but also achieves a new standard of quality.

- Incorporates a US made pump – the largest in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Adjustable air-flow
- Electronically controlled temperature system with digital readout in preset and actual temperature
- Automatic cooling mode protects the heating element
- Power supply: 100-120VAC or 220-240VAC
- Airflow capacity: 1.5L/min. to 28L/min.
- 310W nichrome heating element
- Hot air temperature range: 100° - 385°C (212° - 725°F)
- Size: 7.4"W x 9.6"D x 5.0"H



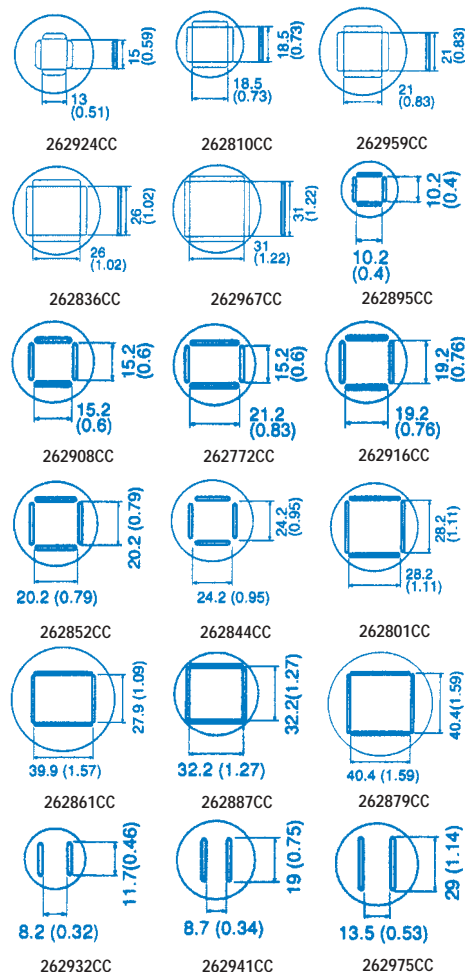
- 25W diaphragm pump
- Weight: 10.8 lbs.



Includes: Precision 5 pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 262895CC and 262908CC)

Part No.	Product No.	Description	1	5
262705CC	850D	Hot air SMD rework station with 4 focus hood tips	\$395.05	\$375.25
262983CC	HG850D	Heat gun replacement	78.95	74.95
262924CC	A1141B	Focus hood tip, PLCC 11.5 x 14	34.95	33.25
262810CC	A1135B	Focus hood tip, PLCC 17.5 x 17.5	34.95	33.25
262959CC	A1136B	Focus hood tip, PLCC 20 x 20	49.95	48.29
262836CC	A1137B	Focus hood tip, PLCC 30 x 30	49.95	48.29
262967CC	A1138B	Focus hood tip, PLCC 30 x 30	49.95	48.29
262895CC	A1125B	Focus hood tip, QFP 10 x 10	34.95	33.25
262908CC	A1126B	Focus hood tip, QFP 14 x 14	34.95	33.25
262772CC	A1128B	Focus hood tip, QFP 14 x 20	34.95	33.25
262916CC	A1127B	Focus hood tip, QFP 17.5 x 17.5	34.95	33.25
262852CC	A1261B	Focus hood tip, QFP 20 x 20	49.95	48.29
262844CC	A1182B	Focus hood tip, BQFP 24 x 24	49.95	48.29
262801CC	A1129B	Focus hood tip, QFP 28 x 28	49.95	48.29
262861CC	A1263B	Focus hood tip, QFP 28 x 40	79.95	75.95
262887CC	A1265B	Focus hood tip, QFP 32 x 32	79.95	75.95
262879CC	A1264B	Focus hood tip, QFP 40 x 40	79.95	75.95
262932CC	A1258B	Focus hood tip, SOP 7.6 x 12.7	34.95	33.25
262941CC	A1260B	Focus hood tip, SOP 8.6 x 18	34.95	33.25
262975CC	A1259B	Focus hood tip, SOP 13 x 28	49.95	48.29

Focus Hood Tips Dimensions: mm (in.)



Vises

Vacuum Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs.
- One-year warranty



Part No.	Product No.	Description	1	5
262115CC	GV-300	Vacuum vise ..	\$47.19	\$44.85

Clamp Vise

- Lightweight, sturdy construction
- No tools needed – finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2"
- Size: 10.0"L x 2.5"W



Part No.	Description	Wt. (lbs.)	1	10
127167CC	Clamp vise	2.1	\$17.95	\$16.99

Hobby Table Vise

Made of aluminum die cast construction, this is an ideal tool for the hobbyist.

- Jaw width: 2.4"
- Maximum opening: 2.0"
- Clamps to any surface up to 1" thick



Part No.	Description	Wt. (lbs.)	1	5
262001CC	Hobby vise	1.0	\$6.75	\$6.35

PANAUSE Electronic Work Center

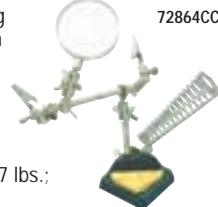
- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty



Part No.	Description	1	5	10
27060CC	Electronic center	\$74.95	\$71.25	\$66.95

Third Hand

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: P/N 26690CC: 0.7 lbs.; P/N 72864CC: 1.4 lbs.



Part No.	Description	1	10	50
26690CC	Third hand	\$5.95	\$5.35	\$4.79
72864CC	W/ soldering holder	7.95	7.19	6.49

Jameco Special Values!

Sale items highlighted in yellow.

Great quantity discounts highlighted in green.

PANA VISE Vacuum Base Vise

An exceptionally lightweight, portable vise that firmly attaches to any flat, smooth, non-porous surface. A single knob locks the head into position, while a second knob locks the arm at any angle you select. This vise will hold any item weighing up to 3 pounds.



- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are excellent for holding small objects and are made of reinforced thermal alloy and opens up to 2.9"
- Fine/course adjustment knobs control jaw pressure
- Arm movement is 140°; positive indents control movement to prevent "flopping"
- Lever locks vacuum pad into place on any flat, smooth, non-porous surface
- Jaw size: 2"H x 1"W
- Base diameter: 3.4"
- Overall height: 7.5"H
- Weight: 0.8 lbs.

Part No.	Product No.	1	10
251791CC	209	\$32.49	\$30.99

PANA VISE Vacuum Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs.
- One-year warranty



Part No.	Product No.	1	10
27131CC	M381	\$55.95	\$53.25

PANA VISE PV Jr. Vise

- Jaw opening: 2.8"
- Jaw size: 1" wide x 2" long
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- The vise neck tilts, turns and rotates
- Vise height: 6.8"
- Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs.
- One-year warranty



Part No.	Description	1	10
134439CC	Jr. vise w/ mountable base	\$21.95	\$19.95

Soldering Tip Cleaner with Stand and Rosin Paste Flux

156777CC:

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability



Part No.	Description	1	10	50
156777CC	Tip cleaner & stand	\$4.95	\$4.49	\$4.05
160004CC	Metal wool replacement	2.79	2.49	2.29
73584CC	Rosin paste flux (2 oz.)	1.99	1.89	1.79

For additional tools see pages 207 - 215.

Rosin Core Solder Rolls and Pocket Packs

Part No.	Mfr.	% Composition			Dia. (In.)	Wt. (lbs.)	Pricing			
		Tin	Lead	Silver			1	10	50	100
141778CC										
32117CC										
170456CC										
73576CC										
73576CC	Kester (pak)	60	40	0	.031	0.04	\$2.59	\$2.35	\$1.99	\$1.85
32117CC	Kester	60	40	0	.031	1.00	13.19	11.89	10.69	9.59
73605CC	Kester (pak)	62	36	2	.020	0.10	1.75	1.49	1.31	1.15
112344CC	Kester	63	37	0	.020	1.10	17.95	16.19	14.55	13.09
151474CC	Kester*	63	37	0	.031	1.00	17.69	15.95	14.35	12.89
170456CC	Golden	60	40	0	.031	0.06	1.39	1.25	1.05	1.05
141794CC	Super	60	40	0	.031	0.55	5.95	5.39	4.85	4.35
141786CC	Super	60	40	0	.031	1.10	7.95	6.95	6.25	5.59
141778CC	Super	60	40	0	.031	2.20	13.95	12.95	11.95	10.95

* Organic core



Lead-Free Solder Tip Tinner

Prevents oxide buildup and tin depletion on the tip. Increases tip life and heat transfer resulting in a better solder joint!

- 0.7 oz. tin with self adhesive pad



Part No.	Description	1	10	50
132986CC	Lead-free tip tinner	\$4.95	\$4.59	\$4.19



5' No-Clean Desolder Braids

Meets all of the most stringent soldering standards for worldwide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002.



Part No.	Description	1	10	100
139951CC	.030"W desolder braid	\$2.25	\$1.95	\$1.75
124126CC	.060"W desolder braid	2.35	2.15	1.95
124118CC	.075"W desolder braid	2.39	2.15	1.95
263708CC	.098"W desolder braid	2.59	2.35	2.23

5' Desoldering Braids

- Easy-to-use, handy dispenser
- Braided copper with flux



Part No.	Description	1	10	100
41081CC	.079"W braid (5')	\$1.49	\$1.35	\$1.19
41099CC	.098"W braid (5')	1.55	1.29	1.15
153461CC	.120"W braid (5')	1.59	1.39	1.25



ProWick® Desoldering Braid

Pure Rosin

Finest oxygen-free and oil-free fine-gauge wire, the 100% copper wick is then coated with flux, which cleans connections thoroughly during desoldering to insure maximum solderability. The thin coating of flux also provides dependable, long lasting protection from oxidation.

- 263581CC with bobbin
- Length: 5'

Part No.	Product No.	1	10	100
263695CC	1803-5F (0.075"W)	\$1.95	\$1.77	\$1.68
263599CC	1804-5F (0.098"W)	2.09	1.89	1.79
263581CC	1811-5F (0.098"W)	2.39	2.19	2.09

Desoldering Wick

No more burnt fingers

- Handy dispenser
- Length: 5'
- Pure copper braid
- No clean flux formula



Part No.	Description	1	10	25
175986CC	0.067"W braid	\$2.99	\$2.69	\$2.42

Soldering Gun

This soldering gun with nozzle guide for solder is perfect for soldering through-hole components. Trigger action pulls out solder from the back of the soldering gun to the tip for the exact amount of solder.



- Power consumption: 40W
- 120 VAC
- Solder entrance at the back of gun accepts 0.8mm to 2.3mm diameter solder
- Single hand operation
- Size: 7.5"L x 1.4"W x 5.9"H
- Lightweight
- Weight: 0.7 lbs.

Part No.	Description	1	10	25
319169CC	Single feed soldering gun	\$37.15	\$33.19	\$31.55

Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W



Part No.	Mfr. Cross Ref. No.	1	10	25
159126CC	HT156	\$2.65	\$2.38	\$2.15

Heat Sink and 7-Piece Soldering Aid Kit



100378CC: Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts
100503CC Includes soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	50
100378CC	Heat sink	\$0.75	\$0.71	\$0.59
100503CC	Soldering kit	4.49	4.27	4.27



Plastic Pump Bottle

- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover



Part No.	Description	1	10	50
158131CC	Pump bottle	\$9.95	\$8.95	\$7.95

Phone 1-800-831-4242

Online www.Jameco.com

Order Anytime 24x7x365

Fax 1-800-237-6948

3X, 3-Bulb Adjustable Magnifying Lamp

Adjustable rectangular 3-diopter lens allows independent movement of the lens for best lighting and viewing angles.

Three 9-watt compact fluorescent bulbs located to the side and top of the lens provide superior lighting to your workspace or job at hand. The integral spring-balance arm reduces the chance of pinched hands from springs, and provides a sleek clean look.

- 47" long arm
- 2 on/off buttons
- Color: beige
- UL listed
- Weight: 8.15 lbs.

Part No.	Description	1	10	25
217517CC	Adj. magnifying lamp	\$79.95	\$74.95	\$69.95

Tweezers with 8X Magnifier

The perfect combination hand tool for professionals working with small objects. Magnifying glass stays in perfect focus with tweezer heads.

- Stainless steel construction
- Precision tip tweezers
- 1.2" diameter 8 diopter lens
- Length: 3.8"

Part No.	Description	1	5
217824CC	Tweezer magnifier	\$6.29	\$5.99

Wide View 2X Foldable Magnifier

This folding 2X magnifier is very popular among professionals needing a large-view magnifier plus the convenience of portability. Made of high-quality plastic, the frame is light with a precision glass lens. Easy-to-read scales in inches (scale of 1/16") and millimeters are etched on the base.

- Size (unfolded): 6.1"W x 5.3"D x 6.5"H

Part No.	Description	Wt. (lbs.)	1	10
218296CC	Foldable magnifier	1.0	\$6.79	\$6.16

General Purpose Illuminated 3X Magnifier

- 75mm diameter lens
- Great for magnifying fine print
- Light requires 2 AA batteries, see below
- Size: 7.5"L x 3.75"Dia.

Part No.	Description	1	10	25
149542CC	Illuminated magnifier	\$4.49	\$3.99	\$3.64
151087CC	1.5V AA battery (req. 2)	.22	.20	.18

See pages
169 – 171
for Batteries.

3X Magnifying Lamps

- 45" extension arm
- Supplied with 22-watt circuline tube
- New wire clip design permits easy installation
- Extra strong, all-metal mounting base with electrical outlet
- Metal bulb holder for extra protection
- Power requirement: 110VAC/60Hz
- 3X magnification
- Weight: 7.3 lbs.

Part No.	Description	1	10	25
100829CC	Black lamp	\$59.95	\$53.95	\$49.95
149981CC	White lamp	59.95	53.95	49.95

Standard Adjustable 3X Magnifying Lamp

- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts or turns in any direction
- Uses 60W incandescent bulb (not included)
- 3X magnification
- Power requirement: 110VAC/60Hz
- Weight: 2.9 lbs.

Part No.	Description	1	10	25
22710CC	Magnifying lamp	\$26.49	\$25.19	\$23.89

Precision 5X Magnifying Lamp

The arm extends to 40", is adjustable to any direction or angle, and has a 5X magnifying glass with built-in light. This is the perfect tool to help identify small electronic components and magnify a printed circuit board to help solder electronic components.

- 5" diameter lens
- Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz

Includes: 22W circuline fluorescent bulb

Part No.	Description	1	10	25
197456CC	Magnifying lamp	\$109.95	\$98.95	\$88.95

3X Magnifier with Adjustable Stand

- Heavy duty steel base
- Size: 15"L (full stand) x 4"Dia. (base)

Part No.	Description	Wt. (lbs.)	1	10
148881CC	Magnifier	2.5	\$13.95	\$12.56

Flexible Neck Magnifier

Never squint again at small fine print or have a hard time holding a magnifying glass while holding two other tools with only two hands. Just simply clamp the magnifying lens on to a table or workbench and adjust the flexible gooseneck into position.

- 3.5" diameter & 3x diopter lens
- Arm length: 20"
- Weight: 1.8 lbs.

Part No.	Description	Price
239548CC	Flexible neck magnifier	\$12.99

For Our Complete Selection of Tools
see pages 201 - 211.

Super Bright, Super Reliable LED Flashlights

The perfect tool for individuals who really depend upon a flashlight that always works. Containing space-age solid-state circuitry, batteries last 14 times longer than conventional flashlights and function continuously up to one month. Its super bright white LEDs will last at least 11 years.

- Waterproof, designed for all weather conditions
- Shockproof, withstands a drop from 4'
- Low cost per hour of operation
- Industrial grade switch, rated for 10,000 operations
- Rubber over-molding

215677CC: One month continuous operation using three "D" cell batteries (not included, P/N 215845CC, pg 169) • Weight: 0.8 lbs.

215685CC: 25-days continuous operation using three "C" cell batteries (not included) • Weight: 0.6 lbs.

215693CC: 14-days continuous operation using three "AA" cell batteries (not included, P/N 198707CC, pg 169)

262422CC: 210 hours of continuous operation using 3 "AAAA" batteries (included)

261972CC: Headtorch delivers 330 hours of continuous operation using 3 "AA" batteries (not included, use P/N 198707CC, pg 169)

Part No.	Prod. No.	LEDs	Length	1	10
215677CC	LW-4000	10	10.6"	\$63.95	\$60.79
215685CC	LW-3000	7	8.9"	53.95	51.29
215693CC	LW-2100	4	7.9"	33.95	32.29
262422CC	LW-TEC1000	1	.....	21.79	20.55
261972CC	LW-HT	4	.....	37.95	34.16

Digital Display Calipers

Metric or Inches

- Hardened stainless steel
- Display: inches to 1/1000THS; mm to 1/100THS
- Instructions for making internal, external, depth and step measurements
- Calipers measure to 6 inches/150mm
- Weight: 0.8 lbs.
- One-year warranty

Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783CC, pg 169)

Part No.	Description	1	10	25
127482CC	Digital disp. calipers	\$64.95	\$58.46	\$52.61

30-Day Money-Back Guarantee

If you're not satisfied,
we'll take it back!
Details on page 246.

Heat Sink Compound

- 1 gram tube
- 5/pack
- Color: white gel

Part No.	Mfr. Cross Ref. No.	1	10	25
259151CC	NTE303	\$1.65	\$1.55	\$1.48

Heat Sink Compound

Thermally loaded silicone-based grease that improves transfer of energy across the metal to metal interface between transistor or rectifier to heat sink.

- Color: opaque white

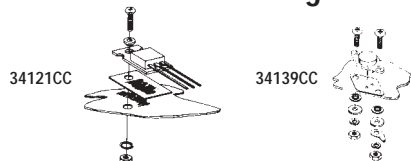
Part No.	Mfr. Cross Ref. No.	1	10	100
167249CC	THM250 (2 oz.)	\$9.95	\$8.96	\$8.06
236822CC	54114 (1 oz.)	4.95	4.49	3.95

Heat Sink Compound 4-oz. Tube

This silicone-free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave-solder baths.

Part No.	Product No.	1	10
169252CC	1978DP	\$16.95	\$14.95

Heat Sink Mounting Kits



- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack

Part No.	Type	Description	1	10	100
34121CC	TO-220	5 pieces	\$3.95	\$3.55	\$3.19
34139CC	TO-3	12 pieces	3.95	3.59	3.25

DATA Direct Etch PCB "Starter" Set

Includes: 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIP, patterns, lines and 1/32" & 1/16" etch resist tape.

Part No.	Product No.	Wt. (lbs.)	1	10
70412CC	ER1	0.7	\$11.95	\$10.95

DATA Pre-Sensitized Circuit Boards & Developer

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16"T

Includes: Instructions 156751CC

Part No.	Description	Wt. (lbs.)	1	10	25
156751CC	Single sided	—	\$4.95	\$4.49	\$3.95
156742CC	Double sided	—	6.49	5.85	5.25
156734CC	4 oz. Pos. developer*	0.6	6.95	5.95	4.95

*Shipped via UPS ground to continental U.S. only

Acid Brush

- Used for application of reactive solvents

Part No.	Description	1	10	100	1000
153322CC	Metal handle, 6"	\$0.65	\$0.59	\$0.45	\$0.31



- Safe on plastics
- EPA SNAP approved, no CFCs or HCFCs



Envi•Ro•Tech™ Duster

Removes microscopic contaminants, lime, dust, metallic oxide, deposits, and other soils without the use of harmful solvents.

Part No.	Description	Wt. (lbs.)	1	12
139900CC	10 oz. aerosol w/ trigger*	0.8	\$6.95	\$6.25
263530CC	15 oz. aerosol w/ trigger*	0.8	8.25	7.49

Envi•Ro•Tech™ Freezer

Rapidly evaporating liquid that can chill to -62°F.

Part No.	Description	Wt. (lbs.)	1	12
139934CC	10 oz. aerosol can*	0.8	\$8.99	\$7.99

ECOLINE Flux Remover

- Dissolves R, RMA, RA, SA & most no-clean fluxes

Part No.	Description	Wt. (lbs.)	1	12
118041CC	10 oz. flux remover*	0.8	\$9.49	\$8.55

ECOLINE Contact Cleaner

- Ideal for switches, relays & other places on electrical connections
- Will not damage switch housings

Part No.	Description	Wt. (lbs.)	1	12
118033CC	10 oz. contact cleaner*	0.9	\$8.95	\$7.95

TechClean® Wiper

This hydro-entangled cellulose/polyester wipe has high absorbency with extra-low particulate and chemical extractables.

Part No.	Description	Wt. (lbs.)	1	12
263564CC	100 sheet/pk	1.1	\$15.59	\$14.25

Isopropyl Alcohol

99.8%+ pure, anhydrous isopropanol for all-purpose cleaning. Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue.

Part No.	Description	Wt. (lbs.)	1	12
263572CC	1 pint bottle*	1.1	\$7.35	\$6.69

*Shipped via UPS ground to continental U.S. only

DATA Photo Etch™ Printed Circuit Kit

Generate your own 1:1 artwork. Then use the patented Fast Neg film process to make a photo negative and sensitize and expose a blank copper board. Finish by developing & etching. No camera or darkroom is required.

Part No.	Product No.	Wt. (lbs.)	1	10
16731CC	12-750*	4.6	\$39.95	\$36.95

DATA Dry Concentrated Etchant

- Makes one pint of etch solution

Part No.	Product No.	1	10	25
70201CC	ER3	\$3.95	\$3.49	\$3.15

*Shipped via UPS ground to continental U.S. only

Fine-L-Kote™ Silicone Conformal Coating

A type SR silicone resin conformal coating that has excellent moisture and fungus resistance properties, offers chemical resistance and is recommended for harsh environments. Contains Opti/Scan™ to allow for black light inspection.

Part No.	Description	Wt. (lbs.)	1	12
263548CC	12 oz. aerosol can*	1.0	\$16.79	\$15.95

Fine-L-Kote™ Urethane Conformal Coating

As a urethane coating, this is highly resistant to most solvents, moisture, fungus, and molds. A clear, repairable coating, it is formulated with a black light indicator Opti/Scan, to provide checks for conformity in quality control.

Part No.	Description	Wt. (lbs.)	1	12
263556CC	12 oz. aerosol can*	1.0	\$15.45	\$14.69

Flux Remover Pen

A unique combination of hydrocarbon solvents and alcohols makes it an excellent defluxer. This can also be used as an all-purpose cleaner for removal of light oils, silicones, waxes, greases, and similar contaminants.

Part No.	Product No.	Wt. (lbs.)	1	12
263724CC	11.5 ml pen	0.1	\$6.19	\$5.61

Conductive Pen

Contains a fast-drying, silver-filled ink designed to quickly make highly conductive silver traces.

- Repairs traces
- Makes smooth jumpers
- Links components
- Shields components

Part No.	Description	Wt. (lbs.)	1	12
263716CC	4.89 ml pen	0.1	\$12.69	\$12.05

Overcoat Green Pen

Designed to insulate printed circuit board traces and components against high voltage arcing, and provides protection from moisture. Configured for rework and repair where precision application is necessary.

- Protects conductive pen traces
- Repairs permanent solder mask

Part No.	Description	Wt. (lbs.)	1	12
263732CC	5 ml pen	0.1	\$9.85	\$9.36

Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242 for details today!

JAMECO ValuePro These long-lasting solderless breadboards feature screen-printed color coordinates suitable for many types of digital and analog prototyping, and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77681CC (pg 226).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry • 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty * WBU5 and JE series do not interconnect



20757CC



20773CC



20790CC



20811CC

Attention Educators! Buy jumper wire (pg 226) in bulk and SAVE! (see Hook-up Wire on page 78)

WBU5 Series Key Features:

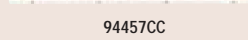
- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19289CC & 20079CC, pg 226)
- Some models feature heavy-duty aluminum backings (JE24, JE27, WBU504)



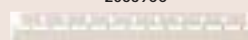
20600CC



94457CC



20669CC



20722CC



136901CC



77825CC

Part Number	Product Number	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L" x W"	Baseplate Size L" x W"	Weight (lbs.)	Pricing			
									1	10	50	100
94457CC	JE19	0	1	100	0	6.5 x 0.4	—	0.04	\$2.95	\$2.65	\$2.39	\$2.15
20600CC	JE21	1	2	400	0	3.3 x 2.1	—	0.13	5.25	4.73	4.25	3.83
20669CC	JE22	1	0	630	0	6.5 x 1.4	—	0.20	5.49	4.95	4.49	3.95
194280CC	JE35	1	1	740	0	6.9 x 2.1	—	0.23	9.95	8.99	8.09	7.25
194298CC	JE37	1	2	840	0	6.9 x 2.4	—	0.25	9.95	8.95	7.95	7.25
194255CC	JE38	1	2	970	4	2.9 x 5.6	4.9 x 6.3	0.50	16.95	15.25	13.75	12.35
20722CC	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.39	8.45	7.61	6.85
194271CC	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	15.95	14.39	12.95	11.65
20757CC	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	13.65	12.28	11.06	9.95
136901CC	WBU504*	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	22.99	20.99	18.99	16.99
20773CC	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	19.95	17.95	16.16	14.54
20790CC	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.29	24.56	22.10	19.89
20811CC	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	33.59	30.23	27.21	24.49

Great Savings on Breadboard Test Leads

Part No.	Description	1	10	25
77825CC	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 20 AWG wire, 5.9"L (15cm)	\$12.95	\$11.69	\$10.49

PLCC Prototype Adapters

PLCC socket mounted on a circuit board for easy wire wrap or design prototyping. Solder masked PCB with 0.25" long leads.



73550CC

- PCB construction • Gold-plated round pins
- Silkscreen numbers identify pin numbers in groups of 5 and 10 • Tin-plated PLCC connector
- PLCC socket identifies pin 1 and orientation key
- PLCC socket slotted for PLCC chip remover

Part No.	Pins	Size (L x W)	1	10	100
73541CC	44	2.3" x 1.6" ...	\$11.95	\$10.79	\$9.69
73550CC	68	3.4" x 1.6"	15.95	14.49	12.95
73568CC	84	4.3" x 1.9"	23.95	21.59	19.45

PCI-Bus Prototype Board

- All plated through holes
- 0.1" hole spacing
- 50 Mil power and ground grids
- Provision for wire wrap and bypass caps
- Impedance matched to bus specifications
- Easy access to every signal on the bus
- Size: 12.4"L x 5.0"W • Weight: 0.6 lbs.



Part No.	Description	1	10
141372CC	PCI prototype bus board	\$74.95	\$67.49

Making Your Own Printed Circuit Board Book

JV Enterprises No darkroom or special equipment needed. Shows steps for drilling and shaping your printed circuit board and the materials you will need. (91 pages)



Part No.	Description	Price
141524CC	Making PCBs Book	\$19.95

8/16-Bit ISA Solderless Plug-In Breadboard

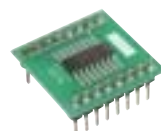


- IBM PC/XT/AT and higher compatible
- 62 data I/O lines and a DB25 female connector for interfacing to peripherals
- Twenty-four 14-pin IC capacity
- Clearly labeled bus lines • 2,352 contact points
- Durable construction • One-year warranty
- Size: 13.8"L x 5.0"W • Weight: 1.0 lb.

Easy PC/XT/AT Prototyping!

Part No.	Description	1	10	25
81672CC	8/16-bit breadboard	\$59.95	\$53.95	\$47.95

See page 229 for Jameco's surface mount prototyping boards.



Wire Jumper Kit (350 pcs.)

- 25 each 0.1" to 5.0" lengths (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/preformed 22 AWG solid wire jumpers



19289CC

19289CC: 350-piece wire jumper kit

- Handy, durable, clear plastic case
- 20079CC: 350-piece refill for 19289CC**
- Case not included

Part No.	Description	1	10	50	100
19289CC	Wire jumper kit ..	\$15.95	\$14.39	\$12.95	\$11.65
20079CC	Refill for 19289CC ...	10.99	9.89	8.90	8.01

Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



126341CC

Part Number	Mfr. Cross Ref. No.	Length (mm / inch)	1	10	100
126359CC	JW50	50 / 1.97 ...	\$3.95	\$3.49	\$2.95
126341CC	JW100	100 / 3.94	4.95	4.49	4.05
126324CC	JW200	200 / 7.87	5.19	4.69	4.25

Resistance and Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.



- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D
- Weight: 0.7 lbs.



211668CC

211668CC:

- 1% resistance substitution from 1Ω to 11.111110MΩ

- 7 decade ranges of resistance
- Values can be changed in 1Ω increments



211676CC

211676CC:

- 5% capacitance substitution from 100pF to 11,111μF
- 5 decade ranges of capacitance

Part No.	Description	1	10
211668CC	Resistance	\$98.95	\$93.95
211676CC	Capacitance	128.95	122.45

Digital/Analog Design Labs

- Two 7-segment displays (digit height: 0.3")
- One-year warranty

Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies

- DC supplies equipped with short circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

Function Generator (5 ranges)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vp-p variable
- Triangle wave output: 6Vp-p fixed
- Square wave output: ±5V fixed



Our most popular digital lab!

International 115/220VAC Switchable



201890CC

Part No.	Tie Points	Fixed Power Supply	Pulse Generator	Frequency Counter	Multimeter	Includes
75838CC	1580	+5VDC @ 1.0A	No	No	DCV (Digital)	Power cord, manual
201890CC	2960	+5VDC @ 0.5A	1Hz to 1MHz switchable	Yes	ACV, DCV, DCmA, resistance (analog)	Power cord, enclosed case, test lead, jumper wire kit, DB25 serial adapter, manual

Part No.	Description	Size (W" x D" x H")	Weight (lbs.)	1	10	25
75838CC	Digital lab	10.6 x 13.3 x 5.0	8.1	\$276.95	\$249.95	\$226.95
201890CC	Digital/analog lab	13.9 x 12.8 x 4.9 (back panel)	11.8	429.95	389.95	349.95

Digital/Analog Design Lab

Solderless Breadboard

- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies

- Variable DC output: 0 to +15V & 0 to -15V @ 500mA
- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Input power: 120/220VAC @ 50-60Hz (switchable)

- Function Generator** • Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vpp variable • Triangle wave output: 0-6 Vpp variable • Square wave output: 0-8 Vpp variable

Other features:

- 2 variable resistors: VR1=1kΩ, VR2=100kΩ
- 8 data switches
- 2.5" dia. 8Ω, 25W speaker
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- 2 banana sockets, 2 BNC jacks
- One-year warranty
- Two 7-segment LED displays (digit height: 0.3")
- 8 red LEDs with separate input terminals

Includes: Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10	25
136266CC	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	\$379.95	\$341.99	\$307.79
319214CC	Replacement breadboard	6.7 x 6.5 x 0.4	0.5	24.45	22.28	21.16

Powered Project Board

- Solderless breadboard with 2420 tie points
- DC power supplies: +5V @ 1A; variable power 0 to +15VDC and 0 to -15VDC @ 500mA
- Back panel has ground terminal
- Outputs are short-circuit protected
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103907CC, pg 72
- Power switch with light
- Breadboard size: 7.4"L x 6.8"W
- Enclosure size: 9.8"L x 8.0"W x 2.6"H
- Weight: 6.8 lbs.
- One-year warranty



CE

International 120/220VAC Switchable

Includes: Power cord

Part No.	Description	1	10	25
136258CC	Powered breadboard	\$99.95	\$89.95	\$87.95

AC/DC Power Supply

Ideal for Breadboards on previous page



International 120/220VAC Switchable

Output Specifications:

- +5VDC @ 1A;
- -5V @ 300mA fixed;
- 0 to +15VDC @ 500mA variable;
- 0 to -15VDC @ 300mA variable;
- 12-6-0-6-12 lapped VAC, 300mA fixed

With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug-in and start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77841CC, pg 204
- Size: 7.4"W x 5.5"D x 2.6"H
- Color: beige
- Weight: 5.5 lbs.
- One-year warranty

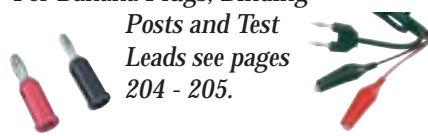
Part No.	Description	1	10	25
77681CC	Power supply ...	\$119.95	\$109.95	\$99.95



Happen to find a like product at a lower price? We'll beat that price by 10% right down to our cost!

Jameco's Low-Price Guarantee

For Banana Plugs, Binding Posts and Test Leads see pages 204 - 205.



For additional Power Supplies see pages 196 - 197.

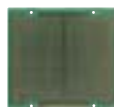




General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided



206578CC



21434CC



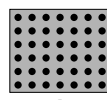
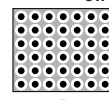
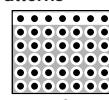
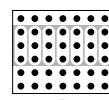
52943CC



21477CC



Board Outline

A
Holes OnlyB
Pad Per HoleC
Power/Ground Perimeter
Bus with Pad Per HoleD
3 Hole Solder Pad
and Bus

See pg 228 for PCB mounting enclosures and hardware (recommend P/N 106551CC)

Part Number	Product Number	Size (W" x L")	Fits Enclosure(s) (see page 228)	Circuit Pattern	Hole Pads	# Holes x Dia. †	Power/Ground Busses	Connector I/O or Edge	# Mounting Holes x Dia.	Weight (lbs.)	Pricing			
											1	10	50	100
105099CC	2855PCB	1.60 x 2.70	18921CC	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	\$5.25	\$4.73	\$4.25	\$3.83
105101CC	5002PCB	1.50 x 3.50	11957CC	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	6.95	6.25	5.59	4.95
263185CC	PCB-403	1.80 x 3.10	18921CC	B	Plated through	300 x .042"	None	None	4 x .115"	.03	6.95	6.25	5.63	5.09
105128CC	2853PCB	2.00 x 4.40	18913CC, 11965CC	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	7.95	6.95	6.25	5.59
105110CC	2300PCB	2.40 x 3.40	11869CC	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	6.95	6.25	5.59
263206CC	PCB-463	2.40 x 4.10	N/A	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
263214CC	PCB-858	2.50 x 4.50	18913CC	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105152CC	2851PCB	3.10 x 5.50	18892CC	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	6.95
263222CC	PCB-69	3.30 x 3.70	N/A	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105136CC	2320PCB	3.30 x 4.50	11885CC	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	9.95	8.95	7.95	6.95
105161CC	2852PCB	3.60 x 7.00	18905CC, 11973CC	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	14.95	13.45	11.95	10.95
206586CC	2746APCB	4.30 x 6.80	209349CC	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	10.95	9.86	8.87	7.98
21434CC	JE401(8001)	4.50 x 6.50	18868CC	B/D	Single-sided	2360 x .042"	2	None	None	.12	21.95	19.76	17.78	16.00
21451CC	JE405(8003)	4.50 x 6.50	18868CC	C	Single-sided	2360 x .042"	1	None	None	.12	19.95	17.95	16.15	13.45
206578CC	2743APCB	4.60 x 4.30	208910CC	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.49	6.74	6.07	5.46
105179CC	2505PCB	5.00 x 6.50	11893CC, 18868CC	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	14.95	13.49	11.95	10.95
21477CC	JE407(8006)	5.00 x 13.25	N/A	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	41.19	37.07	33.36	30.03
206594CC	2747APCB	5.50 x 8.00	209357CC	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	14.99	13.49	12.14	10.93
105187CC	2507PCB	6.10 x 8.80	18876CC	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	29.95	26.95	23.95	21.95
263231CC	PCB-7038	8.30 x 11.9	N/A	B	Plated through	8819 x .042"	10	5	4 x .115"	.40	55.95	52.19	49.59	47.09
263249CC	PCB-6088	9.20 x 13.0	N/A	B	Plated through	11,000 x .042"	10	None	13 x .115"	.50	55.95	52.19	49.59	47.09

Other Manufacturers — Limited Great Deals

28177CC	PCB1	2.42 x 4.10	18913CC	C	Plated through	674 x .040"	None	None	4 x .120"	.04	\$5.95	\$5.35	\$4.79	\$4.29
43140CC	64P44XXP*	4.50 x 6.50	18868CC	A	Drilled only	2860 x .042"	None	None	None	.09	5.99	5.65	5.49	5.19
52943CC	84P44WE	4.50 x 8.50	18876CC	A	Drilled only	3740 x .042"	None	None	None	.15	9.39	8.79	8.49	8.29
37604CC	169P44WE	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.31	16.19	14.19	13.99	13.69
37612CC	169P44XXP*	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.25	11.19	10.39	9.99	9.69
28193CC	PCB3	5.00 x 8.00	18876CC	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	21.95	19.76	17.78	16.00
37621CC	169P84WE	8.50 x 17.0	N/A	A	Drilled only	14,448 x .042"	None	None	None	.53	23.95	22.75	21.59	20.49

* PCB material: phenolic

† All 0.042" diameter hole boards use terminals T44, T49, and T421 (see below)



Wire Wrap and Push-In Terminals

For .042" Diameter Holes

Specifications:

- Material: copper alloy
- Prebagged 100 pcs.

34147CC: Push-In Micro-Klip Terminals

- Overall length: .36" • Post size: .032" x .045"

34155CC: Miniwrap Wiring Terminals • Shoulder: .045"

- Two-prong with square tail for wire wrapping

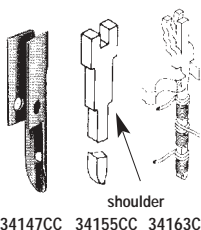
- Overall length: .69" • Post size: .025"Sq.

34163CC: Klipwrap Wiring Terminals • Shoulder: .045"

- Three-prong with square tail for wire wrapping

- Overall length: .83" • Post size: .025"Sq.

Part Number	Product Number	Height Above .062" Board	Length Below .062" Board	100 pc. units	
				1	10
34147CC	T421	.200	.097	\$7.29	\$6.95
34155CC	T44	.065	.530	7.99	7.49
34163CC	T49	.200	.530	11.79	11.19



34147CC 34155CC 34163CC



Copper-Plated Blank Circuit Boards

Ideal for hobbyists and students doing prototypes of circuits. Copper plating on board for either single-sided or double-sided boards.

- 1.6mm thickness



Fig. 1



Fig. 2

Fig. 3

Single-Sided						
Part No.	Product No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10
169279CC	PCBS3X6	3.0 x 6.0	3	0.1	\$3.49	\$3.15
169287CC	PCBS6X6	6.0 x 6.0	2	0.2	4.95	4.49
169295CC	PCBS12X12	12.0 x 12.0	1	0.5	13.49	12.14
Double-Sided						
169308CC	PCBD3X6	3.0 x 6.0	3	0.1	\$5.25	\$4.73
169316CC	PCBD6X6	6.0 x 6.0	2	0.2	7.95	7.15
169324CC	PCBD12X12	12.0 x 12.0	1	0.7	17.95	15.95



262511CC



262537CC

Prototype Builder Boards, Enclosures and Hardware

Call for additional OEM pricing.

These prototype builder boards are designed to fit into our ABS speedy boxes, die cast aluminum enclosures, aluminum boxes, metal cabinets and heavy-duty instrument cases. These pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed at the bottom right (P/N 106551CC).

Board description: laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.



106551CC
Hardware Set; 20 pcs.
(used with all boards)
(see details below)

18921CC



105099CC

18913CC



105128CC

18892CC



105152CC*

11885CC



105136CC

208910CC



105136CC*

105110CC*



105099CC

105161CC*



105152CC*

*All boards sold individually; multiple boards shown

ABS Speedy Enclosures

Will not crack or split when drilled or punched. PCB mounting slots on all four sides. Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions. • Color: black • ABS plastic



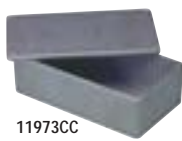
Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18921CC	H2855	3.1" x 2.0" x 0.9"	0.1	\$3.15	\$2.84	\$2.55	\$2.30
18913CC	H2853	4.9" x 2.5" x 1.5"	0.2	3.69	3.32	2.99	2.69
18892CC	H2851	6.0" x 3.5" x 1.9"	0.4	4.79	4.31	3.88	3.49
18905CC	H2852	7.5" x 4.3" x 2.3"	0.5	6.89	6.20	5.58	5.02

Printed Circuit Boards for Above Enclosures

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105099CC*	2855PCB	2.7" x 1.6"	288	\$5.25	\$4.73	\$4.25	\$3.83
105128CC	2853PCB	4.4" x 2.0"	669	7.95	6.95	6.25	5.59
105152CC	2851PCB	5.5" x 3.1"	1450	9.95	8.95	7.95	6.95
105161CC	2852PCB	7.0" x 3.6"	2225	14.95	13.45	11.95	10.95

Die-Cast Aluminum Enclosures

High-quality die-cast aluminum cases come with channeled walls for easy PCB mounting. Ideal for RF circuits because the lid forms an effective screen against RFI interference. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.



Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11957CC	B5002	3.9" x 2.0" x 1.0"	0.2	\$5.95	\$5.39	\$4.85	\$4.35
11965CC	B5004	4.7" x 2.4" x 1.6"	0.4	8.49	7.64	6.88	6.19
11973CC	B5006	7.5" x 4.3" x 2.4"	1.2	13.95	12.56	11.30	10.17

Printed Circuit Boards for Above Enclosures

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105101CC	5002PCB	3.5" x 1.5"	365	\$6.95	\$6.25	\$5.59	\$4.95
105128CC	2853PCB	4.4" x 2.0"	669	7.95	6.95	6.25	5.59
105161CC	2852PCB	7.0" x 3.6"	2225	14.95	13.45	11.95	10.95

Aluminum Enclosures

Ideal boxes for those projects that get left lying around! Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide together.



Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11869CC	B2300	4.0" x 2.0" x 2.8"	0.2	\$5.45	\$4.69	\$4.22	\$3.79
11885CC	B2320	5.0" x 4.0" x 3.0"	0.4	7.89	6.15	5.55	4.99
11893CC	B2335	7.0" x 6.2" x 4.6"	0.8	10.95	9.25	8.29	7.49

Printed Circuit Boards for Above Enclosures

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105110CC	2300PCB	3.4" x 2.4"	637	\$7.95	\$6.95	\$6.25	\$5.59
105136CC	2320PCB	4.5" x 3.3"	1266	9.95	8.95	7.95	6.95
105179CC	2335PCB	6.5" x 5.0"	2829	14.95	13.49	11.95	10.95

Metal Enclosures

High-quality metal enclosures are made to suit a large variety of electronics projects and applications. The base is made of aluminum. Slots are located on the sides of the cases for maximum cooling. Cases screw together and come with an attractive two-tone finish.



Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
208901CC	B2741A	4.0" x 3.3" x 2.2"	0.4	\$6.49	\$5.89	\$5.29	\$4.69
208910CC	B2743A	5.9" x 5.3" x 3.0"	0.8	7.99	7.19	6.49	5.89
208928CC	B2744A	7.3" x 6.3" x 2.8"	1.1	8.99	7.99	7.19	6.49
209349CC	B2746A	6.3" x 7.8" x 2.5"	0.9	12.35	11.12	9.99	8.99
209357CC	B2747A	7.5" x 9.8" x 3.2"	1.4	14.99	13.49	12.19	10.99

Printed Circuit Boards for Above Enclosures

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105110CC	230APCB	3.4" x 2.4"	637	\$7.95	\$6.95	\$6.25	\$5.59
206578CC	2743APCB	4.6" x 4.3"	1684	7.49	6.74	6.07	5.46
206586CC	2746APCB	4.3" x 6.8"	2550	10.95	9.86	8.87	7.98
206594CC	2747APCB	5.5" x 8.0"	3906	14.99	13.49	12.14	10.93
105179CC	2505PCB	6.5" x 5.0"	2829	14.95	13.49	11.95	10.95

Heavy-Duty Instrument Cases

Both cases split apart for ease of working. Four plastic feet molded on unit. P/N 18876CC includes ventilation and speaker sound slots. • Color: gray



Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18868CC	H2505	7.9" x 6.3" x 2.5"	0.8	\$7.89	\$7.10	\$6.39	\$5.75
18876CC	H2507	10.0" x 7.5" x 3.1"	1.4	8.99	7.99	7.28	6.55

Printed Circuit Boards for Above Instrument Cases

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105179CC	2505PCB	6.5" x 5.0"	2829	\$14.95	\$13.49	\$11.95	\$10.95
105187CC	2507PCB	8.8" x 6.1"	4771	29.95	26.95	23.95	21.95

ABS Enclosures w/ Clear Tops

Made of gray ABS plastic w/ clear polycarbonate top cover. Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.



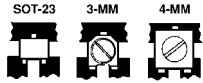
Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
141831CC	203C1	4.6" x 3.2" x 1.8"	0.3	\$8.95	\$8.09	\$7.25	\$6.55
141840CC	203D1	6.3" x 3.2" x 1.8"	0.4	9.95	8.99	8.09	7.25
141858CC	203F1	7.0" x 5.5" x 2.5"	0.8	11.95	10.79	9.69	8.69

Mounting Hardware for PC Boards

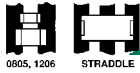
Part No.	Description	1	10	50	100
106551CC	PC board mounting hardware	\$1.79	\$1.65	\$1.45	\$1.35

See page 132 for Rubber Feet for Enclosures.





Surfboards®



Ideal for Prototyping!

Mini Breadboards for Surface Mount Devices

6000/6100 Series for Discrete Devices

- Universal large foil pattern areas accept a wide range of device footprints or can be modified to accept new footprints
- 0.1" pin spacing • Height: 0.5"

Part No.	Product No.	Pins	Width	1	10
207423CC	6103	3	0.3"	\$1.25	\$1.09
207407CC	6008	8	0.8"	2.15	1.89
207431CC	6109	9	0.9"	2.25	1.99
207415CC	6010	10	1.0"	2.25	2.15

9000 Series for ICs

- Adapt SMD to thru-hole
- Size: 1.20"W x 0.65"H
- 207378CC/207394CC: 0.1" pin spacing



Part No.	Product No.	Pins	1	10
207360CC	9081 (For 8-pin SOIC)	.....	\$1.25	\$1.05
207378CC	9082 (For 8-pin SOIC)	.....	3.55	3.10
207386CC	9161 (For 14/16-pin SOIC)	.....	1.75	1.50
207394CC	9163 (For 14/16-pin SOIC)	.....	5.45	4.79



Application Specific Adapters

33000 series SURFBOARDS® convert SMD component footprints to SIP format. Compatible with conventional and solderless breadboards & sockets (.100" center pins).



Part No.	Product No.	Accepted Devices	Pins	1	10
207589CC	33205	SOT-23-5/SC59-5	5	\$1.55	\$1.39
207597CC	33206	SOT-23-6/SOT-23-L/SC-59-6/TSOP-6	6	1.75	1.54

Breadboarding with SMD

Ever tried to breadboard a circuit with a product that's only available in a surface mount package? It's not easy to pick up SMD, more difficult to solder wires and even tougher to prevent damage!

So rather than fighting the small package size, consider soldering the device to a breadboard adapter like the ones shown above. You just plug the adapter into your solderless breadboard without losing any chip functionality.

Start creating your SMD prototyping library today — they'll be ready for your next great idea and all the rest to follow.

Practical Practices

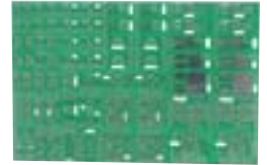
Money Saving Tips for the Engineer



BELLIN DYNAMIC SYSTEMS, INC.

Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming because surface mount devices are so small. Now there is an easy, cost-effective and versatile Snap-Apart solution from Bellin Dynamic Systems.



215491CC

- Quality silk-screened and solder-masked boards
- V-groove scoring between elements for smooth straight edges
- Compatible w/ .100" single or dual row male headers (see pg 99)
- Size: 7.6"L x 5.0"W • Board thickness: 0.031"
- See our website (www.Jameco.com) for additional specifications



Small SMT

Part No.	Prod. No.	Description	1	10
215491CC	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more	\$45.95	\$41.35
227344CC	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	45.95	41.35

SOIC

215520CC	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	\$45.95	\$41.95
227310CC	B510	140 SMT pattern, SOIC 8 to DIP .300" width	45.95	41.35
227328CC	B511	63 SMT pattern, SOIC n/w/d 8, 14, 16, 18, 20 to DIP .300" ..	45.95	41.35
227352CC	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18, 20 to DIP .300" ...	45.95	41.35
227361CC	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width	45.95	41.35

Fine Pitch Dual Row

215503CC	B503	34 SMT pattern, SOIC/QSOP/TSOP/MSOP/TSSOP & more ..	\$45.95	\$41.35
227281CC	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more	45.95	41.35

Quad

215511CC	B504	25 SMT pattern, QFP32, 44, 48, 52, 54, 64, 70, 80, 100 PLCC18, 20, 28, 32, 44	\$45.95	\$41.35
227336CC	B512	24 SMT pattern, PLCC18, 20, 22, 28, 32, 44, 52, 68, 84 & 100	45.95	41.35

PCB Connector (0.062" thick through-hole)

227272CC	B506	45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB conn.	\$45.95	\$41.35
----------	------	--	---------	---------

PitchStick™

227299CC



227299CC	B508	20 SMT pattern, 48 inline pads, metric/rare pitches	\$45.95	\$41.35
227301CC	B509	20 SMT pattern, 48 inline pads, 50 & 25 mil pitches	45.95	41.35

CHIPQUIK SMD 2000 Removal System

Complete Solder/Desolder Rework Kit

- Removal alloy, solder paste, 3" solder, paste flux, liquid flux remover/cleaner, handi vac, 2 acid brushes, precision tweezers, six 4" x 4" cleaning wipes, 10 swabs, 6 alcohol pads, SMD removal/clean up instructions, stainless steel probe kit & 5' solder wick



Part No.	Description	1	10
208055CC	SMD 2000 removal system	\$99.95	\$94.99

CHIPQUIK SMD Removal Kit

- Quick and easy to use
- Potential damage to printed circuit boards is eliminated
- 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins
- Uses simple equipment and materials for application & clean-up



Part No.	Description	1	10
141305CC	SMD removal kit	\$21.95	\$19.75

See page 228 for Circuit Board Mounting Hardware and page 132 for Round & Hex Aluminum Spacers and Standoffs.



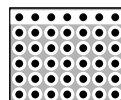
ISA Printed Circuit Prototyping Boards

Printed circuit prototyping boards for virtually any application — including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precise standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

- Edge contacts: gold



Circuit Pattern



Power/Ground Perimeter Bus with Pad Per Hole



21531CC



28206CC

Part Number	Product Number	Description	Size (Inches) W x L	Terminals (pg 227)			I/O Connector (not included)	Hole Pads	# Holes x Dia.	Power/ Ground Bus	# Mounting Holes x Dia.	Weight (lbs.)	Pricing		
				T44	T49	T421							1	10	25
21531CC	JE417	PC/XT 8-bit	4.2 x 6.50	yes	yes	yes	D-sub 9, 15, 25 & 37	Plated through	2126 x .042"	2	8 x .120"	.12	\$19.95	\$16.99	\$14.65
28206CC	PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	D-sub 9, 15 & 25	Plated through	4890 x .042"	2	4 x .120"	.23	24.95	23.69	21.85

microEngineering Labs LAB-X1 Experimenter's Module Board

The LAB-X1 is a pre-assembled experimenter's platform. It provides an assembled testbed containing most of the circuitry commonly used with PICmicro microcontrollers (MCUs). Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.



- 40-pin ZIF socket for PICmicro MCU (not included, PIC16F877-20/P recommended)
- Reset button • 16 switch keypad • 3 potentiometers • LED bargraph
- 2 lines x 20 characters LCD module • Speaker • 2 RC servo connectors
- RS232 interface • Socket for RS485 interface (device not included)
- Socket for I2C & SPI serial EEPROM (device not included) • One-year warranty
- Socket for Microwire serial EEPROM (device not included)
- Socket for real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector • Prototyping area for additional circuit
- Wiring for microchip in-circuit debug connector • Size: 5.5" x 5.6"

Requires: AC adapter (below)

Part No.	Description	1	10
169113CC	LAB-X1 Experimenter Board	\$199.95	\$189.95
176903CC	LAB-X1 Experimenter Board Kit (unassembled)	139.95	132.95
198168CC	LAB-X2 for 28 and 40-pin MCUs	69.05	65.00
198176CC	LAB-X3 for 18-pin MCUs	119.95	107.95
176882CC	PIC16F877-20/P microcontroller (pg 11)	9.49	8.49
127976CC	AC adapter (details on page 162)	4.75	4.29

microEngineering Labs EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 9.

- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming • PICmicro Assembler software included

Requires: Two 9V batteries or AC adapter (below)

Part No.	Description	1	10
132679CC	EPIC Plus PICmicro programmer	\$59.95	\$53.95
136397CC	8/18/20-pin ZIF adapter	34.95	31.95
132610CC	40/28-pin ZIF adapter	34.95	31.95
162317CC	AC wall adapter (16VDC/500mA, details on page 162)	7.95	6.95
67256CC	6' DB25 cable (details on page 80)	6.45	5.79

Vacuum Tweezers

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9"L x 0.6"W • One-year warranty

Includes: 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips

Part No.	Description	1	10
88268CC	Vacuum pick & place kit	\$29.95	\$27.95

4-Piece Conductive SMD Tweezer Set

- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip • Each is 4.5" long

Part No.	Description	1	10	25
172638CC	4-piece conductive SMD tweezer set	\$11.95	\$10.95	\$9.95

PLCC Surface Mount and DIP IC Extractors

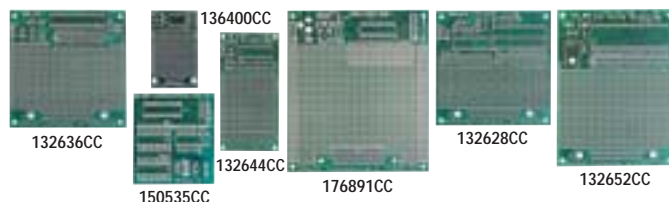
- Size: 4.0"L x 2.0"W (both)

Part No.	Product No.	Description	1	10	100
16766CC	HT103B	PLCC IC extractor	\$3.95	\$3.55	\$3.19
16838CC	HT103A	DIP IC extractor	1.49	1.25	1.09

microEngineering Labs "PICProto" Prototyping Boards

- High quality blank prototyping boards for PICmicro microcontrollers
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes • Large prototyping area
- Solder mask on both sides makes soldering easy • Silkscreen legend

Includes: Documentation sheet with schematic, suggested parts and placement



PICProto 18, 18L: For all 18-pin PICs including PIC16C52, 54, 56, 58, 55A, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644CC	PICProto 18	3.0 x 1.5	\$9.95	\$8.95
176891CC	PICProto 18L	3.6 x 4.1	19.95	17.95

PICProto 3: For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

132636CC	PICProto 3	3.0 x 3.0	\$14.95	\$13.49
----------	------------	-----------	---------	---------

PICProto 64: For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

132652CC	PICProto 64	4.0 x 3.0	\$16.95	\$14.95
----------	-------------	-----------	---------	---------

PICProto 8: For all 8-pin PIC12Cxxx and 12CExxx

136400CC	PICProto 8	2.0 x 1.2	\$8.95	\$7.95
----------	------------	-----------	--------	--------

PICProto Dual: For 18-pin PIC16C52, 54, 56, 58, 55A, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, & 84, as well as 28-pin PIC16C55, & 57. Accepts standard 0.6" 28-pin device or 0.3" skinny DIP

132628CC	PICProto Dual 18/28	3.0 x 3.0	\$14.95	\$13.49
----------	---------------------	-----------	---------	---------

PICProto S1: For working with circuits in "Easy Microcontrol'n" (pg 11) and "Microcontrol'n Apps" (pg 11). Holds 18-pin PICmicro, oscillator, 5-volt power supply, DIP switches, & socket to solderless breadboard

150535CC	PICProto S1	2.1 x 1.9	\$13.55	\$12.95
----------	-------------	-----------	---------	---------

microEngineering Labs PICBasic and PICBasic Pro Compiler

PICBasic converts your BASIC programs into files that can be programmed directly into a PICmicro MCU.

- Compatible with most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows (includes Windows editor/DE software)
- I2C instructions to access external serial EEPROMs
- In-line assembler and call support

132661CC: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- PEEK and POKE instructions to access any register from BASIC
- Serial speeds to 9600 baud
- Supports PIC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx, 84, 92x, and PIC16CF8xx microcontrollers
- May use up to 2k of code space

150543CC: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2K • Bit, byte, word arrays
- Real If...Then...Else...Endif • Hierarchical expression handling
- Interrupts in BASIC and assembler • BASIC Stamp I and II library
- Built-in LCD support • MPLAB/MPASM/ICE compatibility
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers

Part No.	Description	1	10
132661CC	PICBasic compiler	\$99.95	\$89.95
150543CC	PICBasic Pro compiler	249.95	224.95

See pages 9 – 12 for our complete selection of
PIC Microcontrollers



Ultra-Fast 48-Pin USB & Stand-Alone Universal Programmer

- Fastest low-cost programmer in the market; programs high-density FLASH memory at near theoretical minimum programming time: (Intel 28F320W18 – 1.8 volts 32Mbit at 18 sec.; 13 sec. for programming & 5 sec. for verifying)
- Standard universal 48 pin-drivers support devices down to 1.5 volts; optional 100-pin expander module
- Currently 4,000 devices supported from 100+ manufacturers including memory, MCU, and PLD; 11,000+ by 1/1/2004
- Supports: EPROM, Paged EPROM, Parallel/Serial EEPROM, FPGA Configuration Serial PROM, FLASH Memory (NOR and NAND), BPROM, NOVDRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic
- Reliable programming of low voltage devices down to 1.5 volts
- Three modes of operation are supported: standard PC hosted operation via USB, stand-alone operation for manufacturing or service and built-in terminal mode to operate via an external instrument
- Over-current/over-voltage protection for safety of the chip & programmer hardware
- Microsoft® Windows® 98/ME/NT/2000/XP compatible
- Size: 9.4"L x 5.9"W x 2.0"H • Weight: 5.0 lbs.

Includes: 12VDC@2.5A AC adapter, Program CD, USB Cable, user's guide

Part No.	Description	1	5
231221CC	SuperPro-3000 USB universal programmer	\$989.95	\$940.45

For Adapters
see Below



48-Pin Advanced, Low-Cost Universal Programmer

- Provides a 48-pin ZIF socket that accepts any number of pins
- Programmable I/O level supports low voltage devices down to 1.8V
- Device insertion and pin contact check protect chips from damaging
- Supports 5000+ devices including E/EPROM, FLASH, Microcontrollers, PLD & tests standard logic devices & SRAM
- High-speed embedded CPU generates more accurate & reliable algorithm timing
- Supports Windows® 95/98/2000/NT/ME/XP
- Connect to PC via printer port
- Size: 7.8"L x 5.5"W x 1.0"H • Wt.: 4.0 lbs.

Includes: Power adapter, parallel cable, user's guide & CD-ROM software

Part No.	Description	1	5
231191CC	SuperPro-280 advanced universal programmer	\$444.95	\$422.69



For Adapters
see Below



Speed Comparison

Device Type	Program (seconds)	Verify (seconds)	Pieces in 8 hour day
28C64B	1	0.8	7578
24C256	3	8	2215
W78E58	13	3	1600
PIC12C508	1	0.8	7578

XELTEK 40-Pin Low-Cost Universal Programmer

- Supports 2500+ devices, including most E(EP)ROM, Series E(EP)ROM & FLASH
- Programs GALs, PEELs, PALCE, Microcontrollers, PIC16Cxx/17Cxx, COP87xx, and PSD3XX
- Tests TTL/CMOS Test, Memory Test, Vector Test, Test Pattern Edit, Auto Identify TTL/CMOS Device
- Features a universal ZIF socket that accepts up to 40 pins
- High-speed programming, cost-effective hardware and flexible software
- Load and save file in binary, Intel (extended) Hex, Motorola S or Tektronics (extended) Hex format. Multiple load, format conversion, relocation etc.
- HEX-ASCII Edit, Fuse Map Edit, Checksum, Swap, Vector Table edit
- Supports Windows® 95/98/ME • Printer Port Interface
- Size: 7.8"L x 5.5"W x 0.8"H • Weight: 4.0 lbs.

Includes: Power adapter, parallel cable, user's guide and CD-ROM software

Part No.	Description	1	5
231183CC	SuperPro-Z universal programmer	\$244.95	\$232.69

XELTEK SMD Adapters for SuperPro 280/680/3000



231247CC



231255CC



231263CC



231271CC

Part No.	Product No.	Description	1	5
231247CC	A008A	28-pin PLCC adapter	\$84.95	\$80.75
231255CC	A015A	32-pin PLCC adapter	94.95	90.25
231263CC	A244A	44-pin PLCC adapter	109.95	104.45
231271CC	A247A	48-pin TSOP adapter	174.95	166.25

High-Speed Universal Device Programmer/Tester

Parallel Port Interface

- Programs Flash memory, PROM, EPROM/EEPROM, Serial (E)EPROM, Bipolar PROM, PAL, PALCE, GAL, NVRAM, PEEL, EPLD, SPLD, CPLD, PIC & Microcontrollers
- 5000+ device types supported
- Hardware diagnostic program examines all 48-pin drivers
- On-board FPGA for speed; 4X faster than offshore brands
- Tests TTL, CMOS, DRAM and Static RAM ICs
- Detects pin locations for poor or damaged contacts
- Current limiting protects hardware circuits from improperly inserted or defective chips
- Supports POF and JEDEC formats
- High-speed device function tests and user creatable test library
- Read, blank check, program, verify, checksum, data compare, security, auto (erase, blank check, program, verify), and option bit program function
- Built-in editor for both buffer date and test vectors • CE/CUL/CSA quality certified

Includes: Parallel cable, installation diskette, power cord and manual

System Requirements: IBM PC, XT, AT, 386, 486, Pentium®, hard drive, 512k RAM, Windows® 95/98/2000/NT, and parallel port

Part No.	Description	Socket	1	5
207765CC	TOPMAX	48-pin universal ZIF	\$875.95	\$832.95



Versatile, Production Quality Universal Programmers

Parallel Port Interface

- 3000+ device types supported
- Supports EPROM, flash, microcontroller, Serial (E)EPROM, EPLD, PALCE, GAL, PEEL
- Auto search device select function
- Fast programming speed with IC vendor approved algorithms
- Built-in editor for both buffer date and test vectors
- Supports JEDEC, Intel Hex, Motorola S Records, Binary and ASCII file formats with File LOAD/SAVE command
- Built-in macro commands for programming

Includes: 01/02/03 personality modules, parallel cable, wall adapter, disk & manual
System requirements: IBM PC, XT, AT, 386, 486, Pentium®, hard disk, 512k RAM, standard parallel port, MS-DOS 2.11 or higher

Part No.	Description	Sockets	1	5
207773CC	MEGAMAX programmer	48-pin ZIF	\$379.95	\$349.95
207781CC	MEGAMAX4G prog.	48-pin ZIF (1)/32-pin ZIF (3) ..	429.95	399.95



207781CC

Fast, Low-Cost Universal Device Programmer

Parallel Port Interface

- 2000+ device types supported
- Menu driven software
- Programs (E)EPROM, PROM, Serial PROM, PALCE, GAL, flash memory, microcontrollers, ATF
- On-board FPGA for speed; 4X faster than offshore brands
- Auto search device select function supports (E)EPROM and microcontrollers
- Device insertion test identifies improperly inserted device before programming
- Auto programming for production programming
- Read, blank check, program, verify, checksum, data compare, security, auto function

Includes: Parallel cable, wall adapter, diskette & manual

System Requirements: IBM PC, XT, AT, 386, 486, Pentium® or compatibles, DOS 2.11 or greater, Windows® 95/98/2000/NT/XP; hard disk, 512k RAM & parallel port

Part No.	Description	Socket	1	5
207731CC	CHIPMAX	40-pin ZIF	\$349.95	\$332.95



Opening an account is easy!!

Corporate Customers

Call 1-800-831-4242
for details today.



Universal EPROM/Flash Programmer w/ USB Interface

- Supports low voltage components up to 2.5V; user selectable verify Vcc with one or two-pass verify voltage
- High speed: 30 sec. to process 16Mbits memory
- Auto detect device pin insertion and contact check
- Select device brand & number by prompt and convenient cross search, FLASH memory auto detection
- Supports EPROMs, EEPROMs, FLASH EPROMs, Serial E/EPROMs, NV RAMs, Microcontrollers, DSPs and PLDs
- Supports file formats JEDEC, binary, Intel 80/86 HEX, Motorola HEX, Tektronic HEX



SALE

Includes: USB cable, 12V@1.5A power adapter and CD-ROM software

System requirements: Pentium® II or higher, 32MB RAM minimum, 30MB hard disk space, Windows® 98/ME/2000 operating system

Part No.	Description	1	5
225939CC	Leaper 48	\$575.95	\$529.95

512k E(E)PROM/Flash Programmer w/ USB Interface

Compact, portable, and lightweight stand-alone E(E)PROM flash programmer. Also interfaces with your PC through the USB port.



- Programs EPROMs, EEPROMs, Flash EPROMs & more
- 2 sockets for master/slave operation
- Stand-alone mode uses two 9V batteries
- IC parameters are adjustable such as programming algorithm, Vpp voltage, and pulse width
- Supports file formats binary and machine code, INTEL HEX, Motorola HEX
- Supports Windows® 95/98/NT/2000/ME/XP
- Size: 6.3"L x 4.3"W x 1.8"H

Includes: USB cable, 12VDC@500mA power adapter and CD-ROM

Part No.	Description	1	5
220636CC	Leaper-3C	\$275.95	\$249.95

Flash Writer/Programmer w/ USB Interface

- Programs 8-bit FLASH serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: Only 22 seconds to blank check, program, and verify MXIC MX29F040
- File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronic
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Supports Flash EPROM, EPROM & EEPROM



Includes: USB cable, 12V @ 500mA adapter, CD-ROM software and manual

Part No.	Description	1	5
225947CC	Leaper 3D	\$199.95	\$179.95

Flash Writer/Programmer w/ USB Interface

- Programs 8-bit Flash serial IC's via USB cable on Windows® 9x/ME/2000/XP
- High-speed, high-performance programming: programs a 16MB flash device in just 30 seconds
- File formats supported: Binary, Motorola HEX, Intel HEX, Tektronic HEX • Read, program, verify, blank check, erase, secure, memory edit functions
- EPROM auto ID, device insertion check
- File loading & saving w/ automatic format detection
- Project functionality to save device type, file and used procedures
- Adjustable IC parameters: voltage, algorithm, and pulse width
- Supports flash, EPROM, and EEPROM devices
- Powered by power adapter or two 9V batteries



ART
Applied Reader Technology

Includes: USB cable, CD-ROM (software and user's manual), installation manual, and power adapter

System Requirements: Pentium® II, 32MB of RAM, 30MB hard disk space, USB 1.1 compliant port or higher

Part No.	Description	1	10
236988CC	EPP3 flash writer/programmer w/ USB interface	\$219.95	\$208.95

Universal Programmer – Pocket Size & Battery Powered

Parallel Port Interface

A unique ASIC pin driver was designed specifically for this latest generation programmer, enabling the first true universal input/output capability. Along with basic functions the software permits setting specially designated functions for any selected device.



- Supports 5200+ devices: 8-bit and 16-bit EPROM, EEPROM, FLASH EPROM, Serial EEPROMs, all Microcontrollers, GAL/PAL/CE without adapters
- Support for ultra-low voltage devices down to 1.3V
- High speed data transfer: 27C256 read/verify = 2 seconds; program = 8 seconds
- Three separately adjustable voltages for all 40-pins
- Fully compatible with Windows® 95/98/ME/NT/2000/XP
- Integrated editor's many features allow user to edit device data, which can be loaded or saved in INTEL HEX, Motorola S or binary format
- Operates on AC power adapter or 6 NiMH batteries
- Size: 4.5"L x 3.1"W x 1.3"H • Weight: 0.5 lbs.

Includes: Printer port data cable, power adapter & CD

System requirements: PC with Pentium® CPU

Part No.	Description	1	5
226309CC	GALEP-4	\$369.95	\$351.49

16kB-256MB Universal IC Programmer/Tester

Parallel Port Interface

Supports over 7,000 devices including EPROM, EEPROM, Serial PROM, FLASH, PLD/ CPLD/ FPGA, MPU/MCU & much more. Most devices in various package types can be programmed with the on-board 40-pin ZIF socket or through an appropriate adapter/converter. Modular pin drivers program at high speed & provide high reliability & expansion capability.



- Functions of load file, read master, program, verify, auto, ID check, checksum, blank check, erase, secure, protect/unprotect, edit, file transfer, function configuration & self test

Includes: External power supply, DB25 M/F cable, manual & software CD-ROM

System Requirements: Intel Pentium, 32MB of RAM, parallel port, Windows® 95/98/NT/2000/XP, 5MB free hard disk space, CD-ROM drive

Part No.	Description	1	5
216039CC	ALL-11C2 programmer	\$879.95	\$799.95

HI-LO SYSTEMS

EPROM Eraser

- Erases all UV erasable EPROMs (32-pin)
- Upper & lower erasing chambers hold a total of 16 EPROMs • One-year warranty
- Conductive foam liner eliminates static build-up
- Size: 8.5"L x 2.8"W x 2.8"H • Weight: 1.6 lbs.



Includes: AC adapter – 9VDC @ 600mA and a timer which turns eraser off at the end of the selected time period – 10 to 60 minutes

Part No.	Description	1	5
121267CC	EPROM eraser	\$159.95	\$143.95

UVP

EPROM Erasers and Accessories

66042CC: Erases 1 chip in 7 minutes

- Conductive foam liner eliminates static build-up
- UV intensity: 6.5mW/cm² • One-year warranty
- Size: 6.8"L x 1.5"W x 2.3"H • Weight: 0.8 lbs.

Requires: Four AA batteries (not included), recommend P/N 244515CC (pg 170)

15712CC: Erases 1 chip in 15 min. or 8 chips in 21 min.

- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips • UV intensity: 6.8mW/cm²
- Size: 9.0"L x 3.7"W x 2.6"H • Weight: 2.3 lbs.

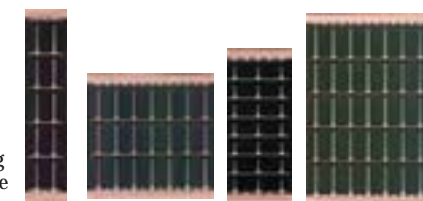


Part No.	Description	1	5
66042CC	Portable eraser	\$54.95	\$49.95
15712CC	8-chip eraser	119.95	109.95
34382CC	Lamp for 15712CC	39.95	29.95
13864CC	Foam (12" x 24" x 0.25")	9.29	8.35

PowerFilm. Flexible Thin Film Solar Modules

Wireless Electronics Series

The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin, and durable. With their ultra-film profile, they are easily integrated with devices for solar recharging or direct powering. Specifically developed to recharge AA, AAA, plus 6 and 12 volt batteries.

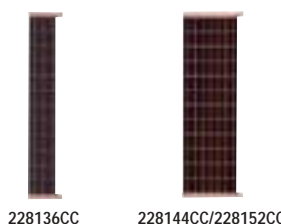


227993CC 228013CC 228030CC 228064CC

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
227985CC	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.89	\$3.49	\$3.19
227993CC	TX 3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	2.89	2.45	1.99
171061CC	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.89	5.29	5.29
228013CC	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	8.89	7.99	7.19
228030CC	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.89	5.29	4.79
228048CC	MPT4.8-75	4.8	50	3.7 x 3.0 x .01	97 x 75 x 0.2	11.89	10.69	9.59
228056CC	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	22.89	20.59	18.49
228064CC	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	13.89	12.49	11.29
228072CC	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	27.89	24.99	22.49
228081CC	MP7.2-75	7.2	100	10.0 x 3.0 x .02	253 x 75 x 0.6	24.89	22.39	20.19
228099CC	MP7.2-150	7.2	200	10.0 x 5.9 x .02	253 x 150 x 0.6	39.89	37.99	34.99
228101CC	MPT15-75	15.4	50	10.0 x 3.0 x .02	253 x 75 x 0.6	26.89	24.29	21.99
228110CC	MPT15-150	15.4	100	10.0 x 5.9 x .02	253 x 150 x 0.6	44.89	42.99	39.99

Remote Control Aircraft Series

Designed to be easily integrated with remote control aircraft or anywhere weight is critical. These modules are very lightweight. Soldered can be applied from the back of the module via the extended copper tape, and have an extra edge seal for protection. We offer versions with and without a strong pressure-sensitive adhesive for simple bonding.



228136CC 228144CC/228152CC

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
228136CC	RC7.2-37PSA*	7.2	50	10.6 x 2.2 x .01	270 x 55 x 0.2	\$19.39	\$17.49	\$15.79
228144CC	RC7.2-75	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	29.89	26.99	24.29
228152CC	RC7.2-75PSA*	7.2	100	10.6 x 3.5 x .01	270 x 90 x 0.2	32.89	29.79	26.79

*PSA = Pressure Sensitive Adhesive

WeatherPro Series

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, extra edge seal for weather protection, and tin-coated copper leads that extend from the module.



228161CC/228187CC 228179CC/228195CC 228208CC

Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
228161CC	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	\$39.89	\$36.99	\$33.99
228179CC	P7.2-150	7.2	200	17.2 x 6.9 x .04	270 x 175 x 1.1	59.89	54.99	49.99
228187CC	PT15-75	15.4	50	10.3 x 3.9 x .04	270 x 100 x 1.1	39.89	36.99	33.99
228195CC	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	56.99	52.99
228208CC	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	99.89	94.99	89.99

Solar Energy Project Kit

Learn about the renewable energy available with solar power. Experimenter kit demonstrates the power of the solar cell to run an electric motor. Contains motor connected to solar cell, propeller, optical illusion spirals, and informative booklet.

• Difficulty level: beginner

Part No.	Description	1	10
215204CC	Solar energy project kit	\$8.79	\$7.95

SALE

Color Code Legend			
New	Sale	Qty.	Save
			Closeout

Solar Cell Grab Bag Assortment

About 40 irregular pieces in various sizes, shapes, and current ratings at 0.5VDC. Connect in series to increase voltage or connect in parallel to increase current.



Part No.	Description	1	10
215255CC	Solar cell assortment	\$9.89	\$8.99

Miniature Glass Solar Panel



- Open circuit voltage: 16.5VDC in full sunlight
- Operating temperature range: -5° to +40°C
- Operating voltage: 12VDC @ 3mA
- Size: 3.6"L x 1.0"W

Part No.	Description	1	10
171985CC	Glass solar panel	\$7.89	\$7.19

Solar Photon Racer Kit

Build your own solar racer and tap into the power of the sun! This easy-to-assemble kit comes with everything you need, including a high-powered 1Va 500mA, ultra lightweight encapsulated solar cell and high-amp/ low-voltage motor for maximum torque and speedy acceleration. Sleek transparent plastic body, made from recycled pop bottles, looks great as is, or add your own custom paint job. The Photon can travel 10 feet in three seconds on a smooth, flat surface, when exposed to full sun.



214738CC

- Difficulty level: beginner
- Size: 8.5"L x 3.8"W x 2.0"H

SALE

Part No.	Description	1	10
214738CC	Photon-P (painted)	\$24.95	\$19.95
215183CC	Photon-1 (unpainted)	19.15	17.25

Forever Keychain Light

Miniature rechargeable light lasts for years and you'll never need to change a battery or bulb. Energized by solar cells, it is entirely self-contained. A squeeze turns on the LED emitting yellow light. Perfect for keychain or gift.



SALE

- Size: 2"Dia. x 0.5"Thick

Part No.	Description	1	10
215212CC	Forever keychain light	\$16.19	\$14.55

Happen to find a like product at a lower print-advertised price? We'll beat that price by 10% right down to our cost!

Jameco's Low-Price Guarantee

Mini-Panel Solar Cells

Ready to Use! No Soldering

Encapsulated mini-panels utilize solar cells similar to those that power our satellites in space, yet they are safe and simple to use. Mini-panels allow for handling without the normal breakage and cell damage associated with fragile solar cells. 6" red/black lead wires attached. Modules may be connected to create different outputs.

• Size: 3.8"L x 2.5"W • Connection: lead



200221CC

Part No.	Prod. No.	VDC @ mA	Size (LxW)	1	10
200205CC	SOL2	0.5 @ 800	2.6" x 3.7"	\$7.95	\$7.15
200221CC	SOL4	2.0 @ 200	3.0" x 3.7"	8.99	7.99
215319CC	4-3.0-100	3.0 @ 100	3.8" x 2.5"	14.29	12.89
215327CC	4-6.0-50	6.0 @ 50	3.8" x 2.5"	15.79	14.39

Solar Motor

- Operates on 0.5-3.0V @ 200mA start-up
- Runs at 80mA no load
- Low stall torque: 25-48 g-cm
- High RPM: 2500-5000 @ maximum efficiency
- Shaft diameter: 2mm
- Motor size: 1.0"Dia. x 1.5"L



SALE

Part No.	Description	1	10
215263CC	Solar motor	\$2.89	\$2.69

Our extensive line of Batteries can be found on pages 170-172.



Eye-Catching Solar Powered Retail Display Device



See Jameco.com for Data Sheet.

SALE

Add eye-catching motion to your in-store advertising with this solar clip-on motion display. Just clip on to an existing fluorescent light blub, add your own signage, turn the lights on and your in-store advertising sign comes to life. Long-life solar motor turns your sign counter clockwise. No batteries or AC power to worry about. No need to worry about tripping your motion sensing alarm systems because you can simply switch off your fluorescent light and the movement stops.

Part No.	Description	1	10
215221CC	Clip-on motion retail display	\$19.69	\$17.75

Motor and Gear Case

Combination motor and gear train in plastic case.

- Operates on 0.5-3.0V @ 0.5V
- Runs at 20mA • 6 RPM
- Strong torque @ 3V: 41 g-cm
- Shaft diameter: 2mm
- Size: 3.0"L x 2.0"W x 1.5"D



SALE

Part No.	Description	1	10
215271CC	Motor and gear case	\$14.25	\$12.79

Portable Solar Battery Charger

Charge your batteries with free solar power. Inexpensive, easy and safe to use—completely self-contained unit, no moving parts or cords. Uses satellite type solar cells that produce the highest power to weight ratio. Compact and lightweight, you can carry this charger with you anywhere. Re-energizes carbon-zinc, alkaline, nickel-cadmium (NiCAD), and nickel-metal-hydride (NiMH) batteries.

• Size: 3.6"L x 3.1"W x 1.5"D

Includes: Battery adapter to charge, AA, C, and D type batteries.



SALE

Part No.	Description	1	10
215239CC	Solar pocket charger	\$26.35	\$23.69

Solar Button Cell Battery Charger

A convenient and safe way to revitalize worn down button cell batteries used in hearing aids, cameras, calculators, remote controls, clocks, alarms and more. LED indicator lets you know when the battery is being charged. Charges nickel-cadmium (NiCAD), nickel-metal-hydride (NiMH), alkaline, mercury, and most zinc air (1.2V-1.5V) batteries.

• Size: 2.3"L x 1.4"W



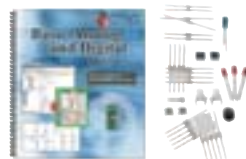
SALE

Part No.	Description	1	10
215247CC	Solar button cell charger	\$13.49	\$12.15

Basic Stamp Learning Tools

Basic Analog & Digital Parts & Text V1.2

Covers the essentials of 8-bit A/D & D/A conversion using a BASIC Stamp. Introduces PBASIC commands for A/D conversion with resistor/capacitor circuits, interfacing an ADC0831 8-bit A/D converter, scaling analog outputs into meaningful digital values, analyzing time-varying signals and using PWM as analog output.



Part No.	Parallax No.	1	10
282950CC	28155	\$43.95	\$39.45

SX Tool Kit LITE

The popular SX Tech Tool Kit LITE is an excellent starting point to get you developing projects with SX-Key programming tool.

Includes: SX key Rev. F, SX tech board, (2) SX 28AC/DP 50 MIPS chips, (1) 50MHz resonator, (1) 4MHz resonator, SX key manual V 2.0 and software

162931CC: DIP-28, I/O: 20, 2k Flash, 136B RAM

283063CC: PQFP-48, I/O: 36, 4k x 12 Flash, 262B RAM

Part No.	Parallax No.	Description	Price
176583CC	45180	SX tool kit lite	\$96.05
162931CC	SX28AC/DP	DIP-28 flash RAM	4.99
283063CC	SX48BD	PQFP-48 flash RAM	7.29

SALE

Corporate Customers

Even lower OEM pricing for larger orders!
Call 1-800-831-4242 for details today.

Industrial Control Parts & Text

An educational tutorial on process control with the BASIC Stamp. Methods of process control are demonstrated in detail using a simple desktop heater system. A fan provides an external disturbance to the closed-loop system.



Part No.	Parallax No.	1	10
176575CC	28156	\$58.49	\$55.59

New Lower Prices

PIC BASIC Programming & Projects

Newnes Publications The BASIC language, as used by the most popular PIC compilers, is introduced from square one, with simple code used to illustrate each of the most commonly used instructions. PIC BASIC is the simplest and quickest way to get up and running – designing and building circuits using a microcontroller. (210 pages, 2001) • Size: 6.1" x 9.2" • Weight: 0.8 lbs.

Part No.	Description	1	10
200168CC	PIC BASIC Programming	\$37.95	\$36.05



Microcontroller Application Cookbook Vol. 1 & 2

Vol. 1 is a wide-ranging collection of 113 interface circuits designed around the BASIC Stamp 2. For somebody getting started with microcontrollers. Discusses timing diagrams, interfacing, A/D conversion & how to control a high-voltage circuit with a solid-state relay.

Vol. 2 is a new collection of 154 interface circuits designed around the BASIC Stamp 2.

Part No.	Parallax No.	1	10
282925CC	28113	\$58.95	\$55.95



PARALLAX 7

Robotic Controller Kits

Board of Education Full Kit

The new Board of Education Revision C carrier board has two major changes from the Revision B. The jumper near the servo connector will select either Vdd (5 V) or Vin (unregulated input voltage) to power the servos. The three-position power switch is either off (0), power to everything but servo connectors (1) or power to everything (2).



- Mechanically interlocked power supply to prevent dual connection of wall pack and 9V battery
- P0 – P15 I/O pins
- DB9 connector for programming and serial I/O
- Female 10-pin dual row connector for optional AppMods

Includes: Board of Education carrier board, BASIC Stamp 2 module, pluggable wires, serial cable, CD-ROM and power supply

Part No.	Parallax No.	1	10
283101CC	28102	\$118.95	\$96.99

Boe-Bot Full Kit

Now with Robotics text v2.0! The new text includes 41 activities for the Boe-Bot and PBASIC 2.5 source code support. The Boe-Bot's flexibility stems from the fact that it's a rolling Board of Education. The Board of Education and Basic Stamp may be removed to be used as your platform for the other Stamps in Class curriculum. The robot may be programmed to follow a line, solve a maze, follow light, or communicate with another robot. Requires 4AA batteries (not included).



Part No.	Parallax No.	1	10
282933CC	28132	\$199.00	\$189.00

Robot Builder's Source Book

McGraw-Hill Everything you need to find and acquire common and uncommon robotic parts and supplies. Jameco and over 2500 mail order suppliers and other sources, including local and international businesses all cross-referenced and categorized to make your search quick and easy. (711 pages, 2003)



SALE

Part No.	Description	Price
213461CC	Robot Builder's Source Book	\$16.95

Robot Builder's Bonanza

TAB Publishing This fascinating guide offers a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures. (753 pages, 2001)



SALE

Part No.	Description	Price
137171CC	Robot Builder's Bonanza	\$17.95

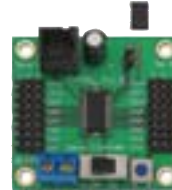
PARALLAX 7

Servo Controller

Controls up to 16 servos and may be networked together so that two servo controllers can control 32 servos using a single I/O line.

- 2400 to 384k baud serial port
- 16-bit PWM timers
- 63 ramp rates
- RS-232 serial protocol

Part No.	Parallax No.	Description	1	10
282896CC	28023	Servos controller	\$38.95	\$36.95



BOB-3 Video Text Module

BOB-3 is Decade's third-generation low-cost video text overlay module. BOB-3 lets your microcontroller or PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable characters, BOB-3 supports pseudo-graphics and multiple languages. BOB-3 generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control BOB-3 through a fast RS-232 style data link, much like a simple serial printer. BOB-3 is compatible with most microcontroller chips and modules, including the BASIC Stamp.

- Higher display density; 40x17 characters (680 max.)
- Faster & more reliable host communication
- Software-controlled digital outputs (6)
- Stand-alone operation, for simple source ID or fixed
- Character size control reticle applications
- Improved automatic video mode control

283733CC:

- 254 ROM character patterns plus 63 user-definable RAM characters
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)

162051CC:

- Displays up to 308 characters (11 lines of 28)
- 12 x 18 pixel character pattern



283733CC

Part No.	Description	1	10
283733CC	BOB-3 video text module	\$99.95	\$94.95
162051CC	BOB-2 video text module	69.95	62.95

PARALLAX 7

BASIC Stamps

BASIC Stamps are small computers using a variation of BASIC called PBASIC. They are ideal for controller apps including robotics, radio-controlled interface of a digital camera, industrial pallet stacker, health monitoring systems, and much more. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines. Each can be connected directly to buttons, LEDs, registers, and many other TTL level devices. Both allow you to store data in the EEPROM before downloading a BASIC program.



127693CC



130892CC

See page 174 for Serial LCD Modules

Includes: Embedded BASIC plus instruction sets; basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

Specifications:	127693CC	130892CC
EEPROM	256 bytes	2048 bytes
RAM	16 bytes	32 bytes
Cur. Draw @ 5V	2mA run/20µA	8mA run/100µA
Microcontroller	PIC16C56	PIC16C57
Program speed	2000/sec.	4000/sec.
# of I/O Pins	8	16 + 2 serial
Package	14-pin SIP	24-pin DIP
Volts Required	5-15VDC	5-15VDC
Size	1.4"L x 0.4"W	1.2"L x 0.6"W

Part No.	Parallax No.	1	10
127693CC	BS1-IC	\$28.95	\$28.29
130892CC	BS2-IC	48.95	43.95

BS2 Educational Starter Kit

This complete "Getting Started" kit is enhanced to include the What's a Microcontroller? (WAM) curriculum. Includes all of the BASIC Stamp hardware required to complete the activities and challenges. With this latest edition of the kit, you will receive the What's a Microcontroller? parts and text making this combination a bona fide "Getting Started" kit. With the WAM kit you'll get your feet wet through a series of over 40 activities designed to provide you with the best possible introduction to the world of BASIC Stamps.



Includes: BASIC Stamp 2 module, Board of Education Programming Board, BASIC Stamp Manual, CD-ROM, jumper wires and a serial cable

Part No.	Parallax No.	1	10
282829CC	27207	\$158.95	\$152.95

50MHz BASIC Stamp 2SX Module

High-speed version of BS2-IC.

- Volts required: 5-12 VDC
- RAM size: 32 bytes
- Scratch pad RAM: 64 bytes
- Microcontroller: Ubicom SX28AC
- Number of I/O pins: 16 + 2 serial
- EEPROM program size: 8 x 2k bytes, 4,000 instr.
- Program execution speed: 10,000 instructions/sec.
- Current draw @ 5V: 60mA run; 200µA sleep



Part No.	Parallax No.	1	10
159775CC	BS2SX-IC 24-pin	\$58.95	\$52.95

Advanced Toddler Robot Kit

Walking robots have mechanical and software interdependencies that require in-depth examples and explanation. The Advanced Robotics text is an introduction to the Toddler robot's basic movements. Students using the Toddler robot will learn advanced embedded programming with BASIC, efficient code development, sensor feedback, and general control. Because of the number of possible movements, we consider the Toddler to be appropriate for those aged 14 and above.

• Height: 10" • Weight: 4.0 lbs.

Includes: 155-page Advanced Robotics text in the Stamps in Class style and the 351-page BASIC Stamp Manual

Part No.	Parallax No.	1	10
282837CC	27311	\$248.95	\$236.49



BS2P Professional Starter Kit

Provides the engineer with all the parts required to get started with the BSP2 microcontroller. The kit includes a selection of components and ready-to-run source code that will help master some of the exciting new features of the BSP2.

Includes: Manual, BS2P demo board, BS2P-24 microcontroller, DB9 (serial) programming cable, PCF8583 chip, 32.678kHz crystal, 24LC32 serial EEPROM, DS1822 thermometer, (3) 4.7K resistors, jumper wires

Part No.	Parallax No.	1	10
202323CC	27235 kit	\$207.95	\$187.95
282984CC	45187 BS2P40 demo board	\$8.95	\$4.95



BS2E-IC Basic Stamp Module

Using the Ubicom SX microcontroller, the BS2E-IC runs at the same speed as BASIC Stamp 2, but has the RAM and EEPROM size benefits of the BS2SX, without the speed and power consumption. Ideal for those who use the BS2 and would like more variable or program space. Programmed in Windows®.

- EEPROM (program) size: 2k x 8, ~ 4,000 instructions
- RAM: 32 bytes (6 I/O, 26 variable)
- Current draw @ 5V: 20mA run / 100uA sleep
- Microcontroller: Scenix SX28AC
- Program speed: 4,000 instructions / sec
- Number of I/O pins: 16 + 2 dedicated serial
- Voltage requirement: 5-12VDC • Package: DIP-24

Part No.	Parallax No.	1	10
283047CC	BS2E-IC	\$53.95	\$51.95



Phone 1-800-831-4242
Fax 1-800-237-6948
Online www.Jameco.com

Order Anytime 24x7x365

Stamp Works Kit

This all-in-one kit takes you beyond theory, into a well-written collection of 32 experiments that will teach you first class BASIC Stamp programming. You'll learn to get the most out of the BASIC Stamp and to increase its versatility by connecting to popular active and passive components.

Includes: Manual, BASIC Stamp Experiment Board, BS2-IC, 2x16 parallel LCD with custom cable, digital multimeter with 2 probes, wire cutter/stripper/pliers, three 100' rolls 22 AWG wire, screwdriver kit, photoresistor, 555 timer, 8-bit serial-to-parallel and 8-bit parallel chips, Dallas Semiconductor 1620 digital thermometer and real-time clock with 32.768MHz crystal, National Semiconductor ADC0831 8-bit A/D converter, Maxim 7219 8-digit LED display driver, National Semiconductor LM358 op-amp, stepper motor, servo, power supply, resistor assortment, capacitors, serial cable, CD-ROM and plastic box for parts

• Weight: 4.0 lbs.

Part No.	Parallax No.	Price
184946CC	27297	\$348.95



BASIC Stamp 2P Modules

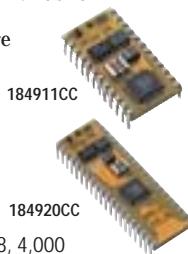
In addition to the BS2-SX (pg 235) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- Voltage requirements: 5-12VDC
- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- Scratch pad RAM: 128 bytes
- EEPROM program size: 2k x 8, 4,000 instructions
- Current draw @ 5V: 40mA run; 400uA sleep

184911CC: Number of I/O pins: 16 + 2 serial

184920CC: Number of I/O pins: 32 + 2 serial

Part No.	Parallax No.	1	10
184911CC	BS2P24-IC 24-pin	\$78.95	\$70.95
184920CC	BS2P40-IC 40-pin	\$87.95	\$79.95



BASIC Time Savings

Would you consider baking a cake from scratch? I prefer to use my time for other activities, and so I will either buy a mix or go to the bakery.

Likewise, when I'm building a robotic device, I prefer to save time by using established, debugged code and simply stitching the "blocks" together. So whenever I'm considering a robotics project using the BASIC Stamp, I'll google "BASIC Stamp Robotics". Hundreds of code modules already exist, and I can spend my time using the creation and eating cake too! Sure, I'm an engineer at heart, but I like to use my time wisely!

Practical Practices

Money Saving Tips for the Engineer



Servo Motors

High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. @ 4.8V
- Can be operated by P/N 151001CC, pg 112

Part No.	Description	Size	1	10
157067CC	Robotic servo	0.8"W x 1.4"D x 1.6"H	\$19.95	\$17.95



Giant Robotic Ball-Bearing Servo

Extremely powerful! Perfect for large robotic projects where power is a must.

- Torque: 161 oz.-in.
- Speed: 19 seconds to 60°
- Can be operated by P/N 151001CC, pg 112

Part No.	Description	Power Supply	1	10
166351CC	Giant robotic servo	4.8-6 volts	\$49.95	\$44.95



26-Pitch Press-Fit Gears and Gear Set

- Works with DC motors with 0.156" and 0.078" shaft diameter
- Heavy-duty plastic construction
- Diametral pitch: 26
- Material: polyethylene resin

131801CC: 20-piece gear set includes 2 each of all the gears and bushings shown below.

* Prepackaged: please order in increments of 10 or 100

Part No.	Description	Bore Size	Pitch Dia.	Works w/ Shaft Dia.	Outer Gear Dia.	1	10	100
162069CC	10 teeth gear	0.149"	0.378"	0.156 (5/32)"	0.455"	\$.89	\$.69	\$.55
162077CC	20 teeth gear	0.149"	0.756"	0.156 (5/32)"	0.842" .....	.89	.69	.49
162085CC	30 teeth gear	0.149"	1.142"	0.156 (5/32)"	1.225" .....	.89	.69	.49
162093CC	40 teeth gear	0.149"	1.540"	0.156 (5/32)"	1.623" .....	.89	.69	.49
162106CC	50 teeth gear	0.149"	1.900"	0.156 (5/32)"	1.985" .....	.89	.69	.49
162392CC	Bushing	0.075"	—	0.078 (5/64)"	—	*	.25	.22
Part No.	Description					1	10	50
131801CC	Gear set – 20 pieces of all the gears and bushings shown above					\$7.99	\$7.29	\$6.49

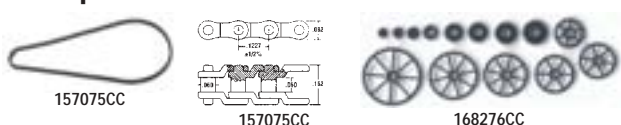


16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.

168276CC: 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with 1/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with 1/4" bore size

Part No.	Description	1	10	25
157075CC	Drive chain (12" long)	\$9.95	\$8.95	\$7.95
168276CC	Sprocket set - 14 pieces (see description above)	29.49	26.49	23.89



Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

168284CC: 12-piece gear set includes 1 each of the following: 10 teeth with 1/8" bore size; 14 and 16 teeth with 1/4" bore size; 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/2" bore size

Part No.	Description	1	10	25
157104CC	1/4" bore aluminum mounting hub w/ set screws	\$4.95	\$4.49	\$3.95
168284CC	Gear set - 12 pieces (see description above)	39.95	34.95	31.95



OWI® Selectable Gear Box Kit

Great 35-piece kit for learning about gear ratios or to add a gear box to your robot project. See-through case has gear ratios from 6.8:1 to 807.93:1.

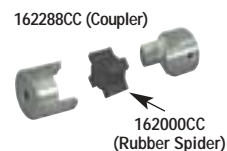
- Difficulty level: intermediate

Part No.	Description	Dimensions	Price
145509CC	Selectable gear box kit with 3V motor	2.5"L x 1.1"W x 1.5"H	\$15.95



Spider Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



Part No.	Description	1	10	50
162288CC	.125" (3.18 mm) ID hub	\$1.35	\$1.15	\$.86
161998CC	.197" (5.00 mm) ID hub	1.09	.89	.59
162270CC	.250" (6.35 mm) ID hub	1.35	1.19	1.09
162000CC	Rubber spider	1.29	1.15	1.05

Climax Spider Shaft Couplers

209285CC/106606CC:

- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"

138288CC:

- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"OD



Part No.	Description	1	10	100
209285CC	.156" ID shaft hub	\$.85	\$.65	\$.39
106606CC	.250" ID shaft hub	.75	.69	.59
138288CC	.250" ID sleeve coupler	4.49	4.05	3.65

Gears and Shafts Kit

Bag of gears, shafts and accessories. Great for science projects. All parts fit 2mm shaft motors.

Part No.	Description	1	10
215298CC	Gears and shafts kit	\$5.89	\$5.29



Mobile Robotic Car Design Book

McGraw Hill – This book describes a complete detail that should be clear enough for a hobbyist of how to build a robotic car, provides detailed photographs, schematics, list of vendors for parts, and software code for the processor and the digital signal processor with an explanation of what the code does and why. Printed circuit board files are free, and can be downloaded from www.books.mcgrawhill.com/authors/KachrooMellodge. (278 pages, 2005)



Part No.	Description	Price
313592CC	Mobile Robotic Car Design NEW	\$23.95

Robotic and Computer Control Kits

OWI® Rockit Robot Kit ▲ 96-piece kit

Explore the fundamentals of robotics with this informative and entertaining robot kit. An intelligent robot with a touch/sound sensor, if it comes in contact with an object or hears a loud noise, it automatically reverses, then turns left.

- Soldering required on PCB
- Size: 4.5"L x 5.0"W x 3.5"H

Requires: 2 AA batteries (recommend P/N 151087CC, pg 169)

Part No.	Description	Wt. (lbs.)	1	10
199603CC	Rockit robot expert	1.0	\$21.95	\$19.55



OWI® Obstacle Avoidance Robot Kit ▲ 107-piece kit

Six crank motion legged robot utilizes an infrared light sensing system to find obstacles and maneuvers itself around them. This IR detection kit includes an infrared diode, photo diode, IC, 2 DC motors and all hardware.

Part No.	Description	Dimensions	Wt. (lbs.)	1	10
140821CC	Spider kit	12.0"L x 7.0"W x 3.5"H	1.2	\$59.95	\$53.95



OWI® Robotic Arm Trainer Kit ▲ 109-piece kit

Five Axes of Motion

Teaches basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. This unit can be commanded or instructed through its five-switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways. Five motors and joints allow flexibility.

- Max. length outwards: 14.2"
- Grip opens to 2" wide
- Shoulder movement @ 120°
- Wrist rotation clockwise or counter clockwise @ 340°
- Rotates left to right at the base @ 350°
- Max. height upwards: 20.1"
- Max. lifting capacity: 4.6 oz.
- Elbow moving range @ 135°
- Weight: 4.5 lbs.

Requires: 4 D batteries (recommend P/N 215845CC, pg 169)

Part No.	Description	1	10
157366CC	Robotic arm kit (unassembled)	\$74.95	\$67.49
159345CC	Robotic controller software (DOS 4.2 & up, Windows® 95/98)	84.95	76.49



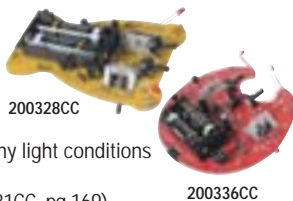
velleman Micro Bug Kits ■

A bright colored miniature bug shaped robot that is attracted to light.

- Two open chassis sub-miniature motors
- LED "eyes" indicate driving direction
- Adjustable light sensitivity that suits almost any light conditions
- Stops in total darkness • Size: 4.0" x 2.4"

Requires: 2 AAA batteries (recommend P/N 249181CC, pg 169)

Part No.	Product No.	Description	Pieces	1	10
200328CC	MK127	Running	26	\$18.95	\$16.95
200336CC	MK129	Crawling	29	\$21.45	\$19.35



velleman Computer Control Interface Kit ▲ 301-piece kit

Connects to printer port without interruption of the printer. Works well in control applications.

- 16 I/Os with opto coupler
- Full opto-isolation with computer
- Analog outputs: eight 6-bit (64 steps), one 8-bit (256 steps)
- Analog inputs: four 8-bit (256 steps)
- 3.5" disk with routines in C++, QBASIC, Turbo Pascal

Requires: DB25 cable (P/N 67256CC, pg 80)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128928CC	K8000	9.3"L x 5.3"W	1.7	\$139.95	\$125.95



Universal Relay Controller Card Kit ▲ 64-piece kit

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

- 8 channels expandable to 15 with 8 each P/N 144186CC, below
- Relay output: maximum 5A/220VAC
- TTL or 5V CMOS inputs (recommend P/N 34315CC, pg 38)
- Contact voltage: 12VDC @ 250mA

Requires: 220 or 125VAC power source

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128910CC	K6714	8.3"L x 5.9"W	1.8	\$59.95	\$53.95
144186CC	VR15M121C relay (JZC-22F)		0.028	3.79	3.39



128910CC



Corporate Customers

Opening an account is easy!!

Call 1-800-831-4242 for details today.

velleman Remote Control by Telephone ▲ 116-piece kit

- Possible to turn on or off up to three devices (switching lights on-off; check alarm systems; water heater on-off; garage doors)
- Check conditions of a switch (open or closed)
- Protected by a user-defined code
- Pick up after 3 or 8 rings (selectable)

Requires: 12VAC @ 300mA

(recommend P/N 101258CC, pg 164)

Includes: Relay for one output (10A/250VAC)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120678CC	K6501	4.1"L x 5.1"W	0.7	\$69.49	\$62.59



Hovercraft Kit ● 25-piece kit

This super kit is fun to build and a "blast" to run, but there's a bonus: education! Through the kit's curriculum (available online), budding scientists and engineers will learn principles of electricity and circuits, propellers, conversion of energy and other core concepts. And at the end of the learning process, they'll have a cool, battery-powered hovering vehicle that can glide over any smooth surface, even water!

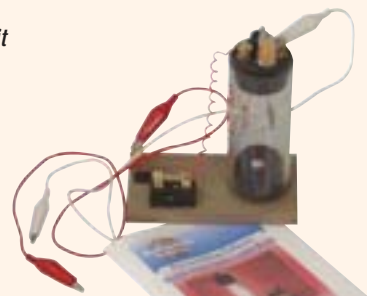


Part No.	Description	Price
285641CC	Hovercraft kit	\$21.79

Lightbulb Kit ● 5-piece kit

Junior scientists can walk in the footsteps of Edison with this hands-on educational kit. The invention of the light bulb revolutionized the world. Recreating the great inventor's thought process could spark a life-long interest in science and technology.

The included booklet and kit components provide a complete learning experience, from basic electricity to the effects of vacuum and different filament materials. Whether as a gift or as the basis of a prize-winning Science Fair presentation, this kit is the perfect choice for "bright" kids! Plus, the refurbishment pack (available separately) includes all materials needed to reuse the kit, again and again!



Part No.	Description	Price
285595CC	Build your own lightbulb kit	\$54.95
285616CC	Refurbishment pack for kit	14.49

Distance and Light Kits

velleman Parking Radar Kit ■ 55-piece kit

Parking in tight places can be difficult, but this unit can tell you when you have come within an adjustable preset distance of the object behind you.

- Detection range: 5cm - 1.5m; angle: 5°
- Transmitter frequency: 40kHz
- PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)

Requires: 10-15VDC @ 16mA max (recommend P/N 100095CC, pg 162) or auto power plug (recommend P/N 115001CC, pg 109)

Part No.	Product No.	1	10
129120CC	K3502	\$39.95	\$34.95



velleman Stroboscope Kit ▲ 19-piece kit

Make your own snapshots and "lightning" light effects. Flash frequency adjustable from 2 - 20Hz.

- Input: 110VAC

SALE



Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
117639CC	K5300	3.5"L x 2.6"W	0.5	\$18.95 \$15.49	\$14.99

velleman 3-Channel Light Organ Kit ■ 80-piece kit

Add a 3-channel dancing light display to your music. Each channel displays a different range of sound.

- Frequency ranges are adjustable
- Microphone input
- Maximum load 2A per channel
- Each output has individual sensitivity control

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
131684CC	K8017	6.7"W x 5.6"D x 1.7"H	1.2	\$54.95	\$49.95



IR LED Illuminator Kit ● 41-piece kit

- 36 high powered infrared LEDs
- At 24" the beam is approximately 3.5' across
- Improve low-light camcorder and CCD camera images without visible light

Requires: 12-15VDC power supply (recommend P/N 114825CC, pg 162)

Part No.	Description	Dimensions	1	10
157964CC	IR illuminator kit	2" Dia.	\$16.95	\$15.29



Ideal for CCD Cameras



Ultrasonic Motion Detector Kit ■ 49-piece kit

Detect motion/movement 13 - 23 ft. away and trigger an alarm w/ this kit.

- 2 boards: one with matched pair of ultrasonic transducers to detect motion from 13 to 23 ft. away; 2nd board contains crystal controlled oscillator & all circuits
- Switchable latch, red LED indicator
- Solder pad output to drive external relay or circuits
- Size: main board: 2.8"L x 2.0"W x 0.8"H;
transducer board: 2.8"L x 0.6"W x 0.9"H

Requires: 9V battery (recommend P/N 151095CC, pg 169)

Part No.	Description	1	10
125090CC	Ultrasonic alarm kit	\$29.95	\$26.95

Senix Distance Sensor Modules

Sends out a sound wave 20 times per second and calculates the distance based on the time differential between send and receive signals. The distance is represented by an output voltage from 0 to 10VDC (P/N 134105CC) or RS-232 signal (P/N 151482CC).

- Sensing range: 4" to 60"
- Sensor diameter: 1.8"
- Board size: 2.8"L x 1.8"W x 0.9"H
- One-year warranty

Requires: 15 to 24VDC @ 40mA (not included), recommend P/N 114825CC, pg 162

- 134105CC: • Output voltage: 0-10VDC
- Each 1VDC increment = 5.6" (e.g.: 1VDC output = 9.6")
- 151482CC: • RS-232 output

Includes: Software diskette and computer cable

Part No.	Description	Wt. (lbs.)	1	10
134105CC	Sensor - voltage output	0.2	\$159.95	\$143.95
151482CC	Sensor - RS-232 output	1.0	179.95	161.95

velleman Scrolling Message Kit ■ 76-piece kit

Create your own scrolling message with this 35-LED graphic display kit. Press "SET" to change a particular character, "UP or DOWN" arrow to select the character, and end your scrolling message with the "<" character.

- 35-LED display
- Maximum 16 characters
- Adjustable scrolling speed

Requires: 9 to 12VDC @ 20mA (recommend P/N 100845CC, pg 161)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
200310CC	MK124	3.5"L x 2.6"W x 1.8"H	0.2	\$24.95	\$22.45

velleman Flashing LED Sweetheart Kit ■ 46-piece kit

This kit shows a beating heart. Great for decorations!

- Power consumption: 8mA

Requires: 8 to 15VDC wall transformer (P/N 100095CC, pg 162) or 9VDC battery (P/N 151095CC, pg 169)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147555CC	MK101	2.5"L x 2.4"W x 1.2"H	0.1	\$11.95	\$10.95

velleman Flashing LED Kit ■ 23-piece kit

Activates 2 flashing LEDs for applications such as model constructions. Adjustable flashing speed by potentiometers.

- 5.5" wire w/ 9V battery connector
- Minimum consumption: 4mA

Requires: 9VDC battery (P/N 151095CC, pg 169)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147580CC	MK102	1.3"L x 1.4"W x 0.6"H	0.1	\$7.95	\$7.19

Don't worry about backorders.
Over 99% of our products are in stock!
Just place your order by 6PM EST for same business day shipment.

We'll Send It Today!

Light Sensitive Relay Kit ■ 20-piece kit

Build a stable and advanced circuit that uses light to control a SPDT 10A relay.

- Dimensions: 2.4"L x 1.3"W x 1.0"H

Requires: 12VDC power supply (recommend P/N 100095CC, pg 162)

Part No.	Description	Wt. (lbs.)	1	10
136223CC	Light relay kit	0.1	\$12.95	\$11.65

Flex Sensor

- Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Nominal resistance: 10kΩ
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	1	10
150551CC	Flex sensor	\$12.95	\$11.65

MONDO•TRONICS

Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight. • Length: 1 meter

How it works... Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract and raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.

- 141348CC: Muscle Wires® Book & Deluxe Kit
- Kit includes one each Flexinol 100, 150 and 250 Muscle Wires® and Project Book
- 3 meters of wire

Includes: Crimps and instructions

Part No.	Description	Wire Dia. (microns)	Linear Resistance (ohm/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
								1	10
141321CC	100LT	100	150	180	28	150	33	\$15.95	\$14.49
141874CC	150LT	150	50	400	62	330	20	16.95	15.29
160055CC	375LT	375	8	2750	393	2000	4	19.95	17.95

* Multiply by 0.0098 to get force in Newtons ** Cycles per minute, in still air, at 20° Centigrade

Part No.	Description	1	10
141348CC	Muscle Wires® kit	\$56.95	\$52.95

Fiber Optic Kit

Fiber Optic Lab Kit

Experiment guide contains nine fiber optic experiments. Kit contains all the fiber optic and electronic components needed to complete the experiments.

- Fiber optic cable transmission
- Characteristics of connectors and splices
- Speed of opto-electronic devices
- Making a light guide
- Fiber optic transmitter
- Index-matching procedures
- Fiber termination techniques
- Receiver design
- Weight: 0.7 lbs.

Part No.	Description	1	10
169914CC	Lab course and lab kit	\$46.89	\$42.29

Electronic Lock

Code Lock Kit ■ 67-piece kit

- Switch an alarm on and off or open door locks
- 3000+ codes possible
- LED indicates state
- Pulse or switch outputs
- Relay contact rating: 5A/220V

Requires: 9-15VDC (P/N 163491CC, pg 163) or 8-12VAC (P/N 100061CC, pg 164) power supply

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
127554CC	K6400	1.7"L x 1.8"W	0.5	\$29.95	\$26.95

Infrared Remote-Control Receiver Modules



Quantity
SAVE

- Commonly used in TVs, VCRs, audio equipment, car stereos and home computers that receive signals or data via infrared • Size: 0.6"L x 0.6"W x 0.5"H
- Single unit module which incorporates a PIN diode & a receiving preamplifier IC
- Excellent mechanical strength and electrical stability • 940nm wavelength

Part No.	Description	Voltage Input	1	10
220628CC	38.0kHz, side view	4.5VDC @ 1mA	\$2.99	\$2.69
165008CC	40.0kHz, top view	5VDC @ 5mA	2.99	2.49
176541CC	56.8kHz, side view	5VDC @ 2mA	1.69	1.27

Infrared Transmitter/Receiver Kit ● 26-piece kit

Transmit a 40kHz modulated IR signal to a distance of 6' to 8'. Can be used as a remote switch to turn objects OFF and ON by infrared. The IR receiver will only receive 40kHz modulated infrared light. You can configure the output for normally ON or normally OFF operation. This allows you to use it as a security sensor or as a remote control switch. You can use the receiver to test TV or VCR remote controls.

- Transmitter size: 1.0"L x 0.8"W • Receiver size: 1.4"L x 1.2"W

Requires: 6 to 15VDC battery (recommend P/N 151095CC, pg 169)

Part No.	Mfr. Cross Ref. No.	Description	1	10
177092CC	IR-2	Transmitter/receiver	\$24.95	\$22.49

Function Generator Kit ■ 21-piece kit

Sine, Triangle and Square Wave

Great for prototyping electronic circuits, whether analog or digital! Produces sinusoidal, triangular, and square waveforms at frequencies continuously variable from 1Hz to 100kHz.

- 21-piece kit (chip, components, PC board, hardware)

Requires: 12VDC supply or ±6VDC split supply (recommend P/N 20626CC, pg 243)

Part No.	Mfr. Cross Ref. No.	Dimensions	1	10
20685CC	JE2206	4.1"L x 1.5"W	\$24.95	\$22.95

velleman Metal Detector ■ 22-piece kit

- Proximity range adjustable to 8cm • Size: 2.1"L x 2.1"W
- LED indicator; can use a buzzer as an option (P/N 105822CC, pg 131)

Requires: 9V battery (recommend P/N 151095CC, pg 169)

Part No.	Product No.	Description	1	10
129091CC	K7102	Metal detector	\$11.95	\$10.95

velleman Water Leak Alarm Kit ● 7-piece kit

Alarms you of water overflows and leaks!

- Water sensor can be placed at a distance by cutting the board and using wires for connection
- Incorporated loud alarm buzzer

Requires: 9VDC battery (P/N 151095CC, pg 169)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
157315CC	MK108	2.8"L x 1.8"W	0.1	\$10.95	\$9.95

Jameco's Low Price Guarantee

If you happen to find a like product at a lower print-advertised price, we'll beat that price by 10% right down to our cost! Just call us. It's that simple!

Crossbow

Accelerometer

3-Axis Accelerometers

- Dynamic range and excellent frequency response
- Shielded cable: 2'L pigtail • Acceleration range: ±4g
- Size: 1.9"L x 1.0"W x 0.8"H

Requires: 5VDC power supply (not included – recommend P/N 164101CC, pg 161)

Part No.	Description	Axis	Current	1	10
141575CC	CXL04LP3	Three	24mA	\$339.95	\$319.95



Crossbow Accelerometer Evaluation Boards

Dual Axis

Evaluation board for the ADXL202, dual axis, 2g accelerometer.

177308CC: features RS-232 interface to connect to PC serial ports. Also includes software to display real time acceleration data.

Part No.	Product No.	Description	1	10
177287CC	ADXL202EB	Dual axis	\$59.95	\$53.95
177308CC	ADXL202EB-232	w/ RS-232	159.95	144.95



PRECISION NAVIGATION, INC. Vector 2X Compass Module

- 2" accuracy, 1" resolution • Hard iron calibration
- Raw uncalibrated magnetometer output optional
- 3-wire serial output format (compatible with Motorola SPI and National Microwire)
- Master or slave capability for data clock generation
- 5Hz sampling rate • Pin selectable BCD or binary output format

Requires: Power supply 5V @ 10mA (recommend P/N 112070CC, pg 161)

Part No.	Description	1	10
126703CC	Vector 2X module	\$49.95	\$44.95



New Educational Kits



Detector Radio Kit ● 29-piece kit

Build this radio kit without power from batteries or a wall outlet. The simple design of this kit illustrates the basic principles behind radio broadcasting. Learn about HF coils, capacitors, resistors, diodes, and the necessary components of a radio and the role each one plays.

Includes: 32-page color manual with 20 experiments

Part No.	Description	Price
307707CC	Detector radio kit	\$22.95



Fuel Cell Car Kit ■ 39-piece kit

An entertaining kit that provides introduction to one of the most significant technologies in the 21st century. Build a car with this kit that runs on water and watch as it turns water into hydrogen and oxygen, forming a gas to power your fuel cell car. Includes full color manual which illustrates how to build a solar powered car, the effects of direct and indirect radiation, the characteristics of a solar module, how to construct and load a reversible fuel cell, decomposition of water in the fuel cell, and much more.

Includes: 96-page full color manual with over 30 experiments

Part No.	Description	Price
307723CC	Fuel cell car and experiment kit	\$139.95



Power House Kit ■ 59-piece kit

Get to know and use the power of the sun, wind, and new technologies while conducting 70 experiments and building more than 20 devices with this Power House Kit. Build, heat, and illuminate an energy efficient house.

Includes: 100-page full color manual

Part No.	Description	Price
307731CC	Power house kit	\$139.95



Super Snooper Big Ear Audio Amplifier Kit

■ 17-piece kit

Listen through walls, hear conversations across the room or listen to sounds a block away. Add a parabolic reflector or mount the microphone in a tube to isolate unwanted noise and make a directional microphone.

• Operating voltage: 9VDC (recommend P/N 151095CC, pg 169)

Includes: Instructions, outputs for speakers or headphones, and schematic

Part No.	Description	Dimensions	1	10
151204CC	Audio amplifier kit	1.8"L x 1.0"W x 0.6"H	\$10.95	\$9.95

FM Stereo Transmitter Mini Kit

■ 37-piece kit

Run your own FM radio station! Plug any stereo signal into this unit and it will be transmitted to any FM radio. Tuneable from 76-108MHz. Plug in a CD player or tape deck and you have a wireless link to an FM radio within 200 feet. Clarity is approximately 40dB stereo separation.

Requires: 9VDC power supply (recommend P/N 151095CC, pg 169)

Part No.	Description	Dimensions	1	10
151239CC	FMST-100 stereo kit	2.7"L x 2.0"W	\$29.95	\$26.95

velleman FM Transmitter

■ 26-piece kit

Mini FM transmitter (100-108MHz) ideal for family broadcasts, baby monitors and security. May be received by any portable FM radio or tuner.

• Integrated pre-amplifier (sensitivity 5mV)

Requires: 9-12VDC power supply (recommend P/N 20626CC, pg 243)

Part No.	Product No.	Dimensions	1	10
117604CC	K1771	1.8"L x 2.8"W	\$42.49 \$10.19	\$9.99

velleman

FM Radio Kit

■ 65-piece kit

Easy to assemble – no coils to wind. Receives the complete FM band of 88 – 108MHz.

• With on/off switch, volume control, and LED indicator

• Single adjustment

Requires: 12VDC @ 100mA power supply (recommend P/N 100095CC, pg 162)

Part No.	Product No.	Dimensions	1	10
211772CC	MK118	4.8"L x 3.3"W	\$21.95	\$19.95

One-Chip AM Radio Kit

■ 39-piece kit

• Uses an IC that performs as an RF amp, detector and AGC in an AM radio

Requires: 9V battery (recommend P/N 151095CC, pg 169)

Part No.	Description	Dimensions	1	10
125161CC	AM radio kit	4.0"L x 1.3"W x 0.5"H	\$13.95	\$12.95

velleman 10 LED Mono VU Meter Kit

■ 36-piece kit

• Instant visualization of audio signal levels

• Easy hook up to a LINE level (LOW input) signal source

• Special input (HIGH input) is provided, which allows direct connection to a speaker output

• Frequency range: 20Hz to 30kHz

• Dot or bar display mode selectable

Requires: 15VDC @ 300mA max. power supply (P/N 189982CC, pg 162)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147643CC	K4304	2.7"L x 1.4"H	0.3	\$21.95 \$16.99	\$15.99

velleman Universal Mono Pre-Amplifier

■ 17-piece kit

For audio applications with insufficient input signal.

- Output impedance: 1k Ω • Max. input signal: 40mV
- Frequency range: 20Hz - 20kHz +/-3dB
- Adjustable output level: 40dB max.

Requires: 10/30VDC @ 10mA power supply (recommend P/N 20626CC, pg 243)

Part No.	Product No.	Dimensions	1	10
117612CC	K1803	1.2"L x 1.8"W	\$8.95	\$7.95

1-Watt Amplifier Kit

■ 9-piece kit

Amplifies audio signals for an 8 Ω speaker.

Use on P/N 125111CC and P/N 147838CC.

- Ideal part for larger projects & battery powered circuits
- Circuit designed around a single TDA7052 IC
- Battery and battery snap not included (recommend P/N 151095CC, pg 169 and 11279CC, pg 173)
- Drives 8 Ω speaker (not included)

Part No.	Description	Dimensions	1	10
125111CC	1 watt amp kit	1.2"L x 1.2"W x 0.9"H	\$6.29	\$5.59

velleman

7-Watt Amplifier Kit

■ 22-piece kit

- Music output power: 7W @ 4 Ω
- RMS output: 3.5W @ 4 Ω & 2W @ 8 Ω
- Harmonic distortion: 0.05% (1W/1kHz)
- Frequency response: 20 to 20kHz (-3dB)
- Short circuit/overload protection

Requires: 15VDC (8-18VDC) @ 500mA power supply (recommend P/N 155803CC, pg 162); speakers

Part No.	Product No.	Dimensions	1	10
127255CC	K4001	2.2"L x 1.4"W	\$13.95	\$12.49

18-Watt Bridged Mono Amplifier Kit

● 17-piece kit

- Drives 3-8 ohm speakers
- Based on the Hitachi HA13118 amplifier IC

Requires: 12VDC supply (recommend P/N 100095CC, pg 162)

Part No.	Description	1	10
136207CC	18 watt amplifier kit	\$15.59	\$13.95

CEBEK

20-Watt RMS Amplifier Module

- Input signal: 250mV • Maximum current: 2A
- Output impedance: 4-8 Ω (mono) • Pre-assembled
- Terminals: .100" matching disconnect solderless terminals
- Size: 2.8"L x 2.8"W x 1.6"H

Requires: Power supply: 12V @ 2A (recommend P/N 143714CC, pg 158)

Part No.	Description	1	10
147838CC	E-11 mono amplifier	\$24.95	\$22.49

velleman

30-Watt Stereo Power Amplifier

■ 38-piece kit

General purpose stereo amp for audio applications.

- RMS output: dual 15W @ 4 Ω or dual 10W @ 8 Ω
- Frequency bandwidth: 7Hz to 60kHz (-3dB)
- Separation: 70dB
- Supply voltage: 24VCT @ 2A (recommend P/N 101864CC, pg 166)

Part No.	Product No.	Dimensions	1	10
129138CC	K4003	2.8"L x 2.0"W	\$29.95	\$26.95

Phone 1-800-831-4242 Online www.Jameco.com

Order Anytime 24x7x365

Fax 1-800-237-6948

Sound Generator & Detection Kits

Color Code Legend
New Sale Qty. Save

velleman Sound Generator Kit ■ 61-piece kit

- Produces 10 different sounds w/ adjustable speed: guns, sirens, car engines, explosions, tunes, screeching tires, phaser guns
- Push-button keyboard

Requires: 8Ω/1 watt speaker; 9V battery (recommend P/N 151095CC, pg 169)



Part No.	Product No.	Dimensions	1	10
127562CC	K4401	2.8"L x 2.8"W	\$29.95	\$26.95

Siren Kit ● 20-piece kit

- Oscillator is off until you press the switch, then a rising tone is produced until a steady value is reached
- If switch is released, tone starts dropping until it cuts off
- Circuit designed around a dual op amp connected as an oscillator and driver

Requires: 9V battery (recommend P/N 151095CC, pg 169)



Part No.	Description	Dimensions	1	10
125137CC	9V siren	2.0"L x 0.8"W x 0.5"H	\$5.95	\$5.39

Train Sound Generator Kit ● 11-piece kit

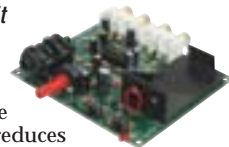
- Produces 4 train sounds by switch selection
- Components supplied for operation on 3VDC (includes battery holder for 2 AA batteries), but circuit will operate from 2.4-6VDC (recommend P/N 151087CC 2 each, pg 169)



Part No.	Description	Dimensions	1	10
125170CC	4 train noises	1.1"L x 0.6"W x 0.2"H	\$9.49	\$8.59

velleman Karaoke Kit ■ 59-piece kit

Do your "Elvis" impersonation by hooking up this kit between your CD player, MD player, or any other line-level source and your amplifier; and sing along to your favorite music. Adjustable microphone level and "vocal reduction" switch reduces original vocals on most stereo surroundings.



- RCA input & output sockets
- ON/OFF switch & led power indicator
- Low power consumption: 16mA typical
- 6.3mm microphone jack

Requires: 9V battery (recommend P/N 198731CC, pg 169)

Part No.	Product No.	Description	Wt. (lbs.)	1	10
215394CC	MK140	3.9"L x 3.3"W x 1.0"H	0.2	\$15.95	\$14.35

Speech Recording & Recognition Kits

Digital Voice Module

- Selectable 16k/32k/44k bps sampling rate
- 0.5W audio amp on board with volume control
- All components soldered on board
- Plays 16 messages • 1M DRAM on board
- Power requirements: 6-12VDC, 200mA (P/N 100095CC, pg 162)



Part No.	Mfr. Cross Ref. No.	1	10
124871CC	DVM58D	\$65.95	\$59.95

velleman Voice Activated LEDs Kit ■ 33-piece kit

Uses sound to activate the flashing of 4 bright red LEDs.

- Power consumption: 0.5mA min./12mA max.
- Adjustable sensitivity

Requires: 8-15VDC power supply (P/N 100095CC, pg 162) or 9VDC battery (P/N 151095CC, pg 169)



Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147571CC	MK103	2.5"L x 1.6"W x 1.4"H	0.1	\$9.95	\$8.95

Voice Direct II Stand-Alone Speech Recognition Kit

Bring life to consumer electronics, toys, motors, appliances, lights, and games through the power of VoiceActivation™ from Sensory. Voice Direct™ II is a speaker-dependent speech recognition module, allowing training of up to 15 words; capable of being organized into 1 to 3 command sets. Using sophisticated speech recognition technology, Voice Direct™ II maps spoken commands to system control functions via digital I/O ports. Each time one of the words is recognized, output pins on the module are toggled high for 1 second. With Continuous Listening Technology, it means no button press is required for activation. Up to 3 "gateway" words can be programmed, each allowing access to 5 commands. In addition, Sensory's latest Voice Direct™ II technology builds on the original Voice Direct™ by offering even higher accuracy, faster response times, and improved noise immunity.



Part No.	Product No.	Description	Wt. (lbs.)	1	10
225971CC	66-0101	Speech kit	0.4	\$59.95	\$53.95

velleman Holiday Kits

3D Flashing Christmas Tree Kit

■ 36-piece kit

- 16 flashing red LEDs
- Low power consumption: 8mA
- Extra green and yellow LEDs to customize your tree
- Size: 3.1"L x 3.5"W x 4.0"H

Requires: 9V battery (recommend P/N 151095CC, pg 169)

Shown with Battery
(not included)



Part No.	Product No.	1	10
211781CC	MK130	\$10.95	\$9.95

Santa Sleigh and Reindeer Kit ▲ 201-piece kit

Make sure Santa shows up in your house this year! 126 multi-colored LEDs animate the movement of the reins, sleigh and reindeer legs.

- Board size: 5.7"L x 3.2"W

Requires: 9V battery (recommend P/N 198791CC, pg 169) or 12VDC power supply (recommend P/N 100853CC, pg 161)



Part No.	Product No.	1	10
211764CC	MK116	\$22.95	\$20.65

Deluxe Christmas Tree Kit ■ 208-piece kit

- No need to remove battery when using external power supply
- 134 LEDs (green, yellow, and red) • Size: 3.2"W x 5.6"H
- Red LED simulates blinking candles

Requires: 12VDC @ 500mA power supply (recommend P/N 162996CC, pg 161) or 9V battery (recommend P/N 198791CC, pg 169)



Part No.	Product No.	1	10
236072CC	MK117	\$19.99	\$17.99

Flashing Christmas Tree Kit ● 30-piece kit

- 16 twinkling red LEDs
- Customize with included green and yellow LEDs
- Power: 9V battery (recommend P/N 198791CC, pg 169)



Part No.	Product No.	Price
147635CC	MK100	\$6.29

Flashing Pumpkin Kit ■ 71-piece kit

- Random flash effect simulates flickering candle
- 1 extra high intensity yellow LED illuminates the pumpkin
- 25 bright LEDs • On/Off switch • Size: 3.2"Hx4.0"Wx1.3"D



Part No.	Product No.	1	10
236081CC	MK145	\$9.99	\$8.99



= Beginner



= Intermediate



= Expert

CEBEK 1 Second to 3 Minute Timer Module

By operating a button, the relay will be activated for the selected time.

- Output contact rating: 5A @ 200VAC
- Size: 3.0"L x 1.7"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095CC, pg 162)



Part No.	Description	1	10
147871CC	I-1 timer	\$19.95	\$17.95

3 Second On to 1 Minute Off Cyclic Timer Module

By triggering the timer, the contacts will be engaged. Once this time has expired, the relay will remain in the off state for 3-60 seconds. It then restarts, repeating the on and off process until power is disconnected.

- Output by relay • Contact rating: 5A @ 200VAC
- Size: 3.0"L x 1.7"W x 1.2"H

Requires: Power supply 12V @ 50mA (recommend P/N 100095CC, pg 162)



Part No.	Description	1	10
147846CC	I-10 timer	\$22.49	\$20.29

velleman Quartz Clock Mechanism

Build your own clock or replace the clock mechanism of a damaged clock with this quartz clock mechanism from Velleman.

Includes: 1 x 1.5AA battery

- Dimensions: 2.2"Sq x 0.6"Thick



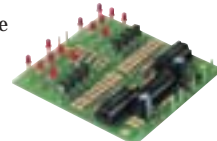
Part No.	Description	Price
239661CC	Quartz clock mechanism	\$3.49

velleman Dual Electronic Dice Kit ■ 85-piece kit

Board games provide an excellent source of entertainment. Update your game. Play with these electronic dice. Great for education of probability theory. Displays are switched off automatically after 30 seconds to save battery power.

- Two fully independent dice, at your choice you can play with one or two dice

Requires: 9V battery (recommend P/N 198791CC, pg 169)



Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
200352CC	K3400	3.0"L x 2.8"W	0.5	\$18.95	\$16.95

Power Supply and Motor Kits

velleman 1 Amp Power Supply Kit ■ 12-piece kit

Provides a regulated voltage adjustable between 1.2 and 35 volts at 1 amp. LM317 regulator gives you remarkably better ripple and regulation characteristics than conventional regulators. Chip includes current limiter and thermal overload protection.

- Output current max.: 1.5A
- Max. dissipation: 15W (cooled)
- Max. input voltage: 40V

Requires: 25.2VCT @ 2A quick connect power transformer (recommend P/N 102103CC or equivalent, pg 166)



Part No.	Product No.	Dimensions	1	10
117621CC	K1823	2.1"L x 2.1"W	\$12.95	\$11.65

Dual Adj. Regulated Power Supply Kit ■ 48-piece kit

Build a dual adjustable power supply for your circuits. Outputs positive-negative voltages from ± 5 to ± 15 VDC.

- Adjustable positive and negative supplies ± 5 to ± 15 VDC, 175mA – 750mA per supply
- 120VAC input • LED on indicator
- PC board construction

Includes: Components and hardware



Part No.	Mfr. Cross Ref. No.	Dimensions	Wt. (lbs.)	1	10
20626CC	JE215	5.1"L x 3.5"W x 2.0"H	2.1	\$22.95	\$20.49

velleman DC to Pulse-Width-Modulator Kit ▲ 40-piece kit

The circuit converts a DC voltage into a series of pulses, such that the pulse duration is directly proportional to the value of the DC voltage.

- PWM range: 0 to 100%
- Operating voltage: 8 to 35VDC
- PWM frequency: 100Hz to 5kHz (adjustable)
- Min. consumption: 35mA • Max. output current: 6.5A
- Efficiency: better than 90% at full load
- Adjustable sensitivity: 2.5 to 35VDC

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120539CC	K8004	3.3"L x 1.9"W x 1.8"H	0.5	\$22.95	\$20.49



30-Day Money Back Guarantee

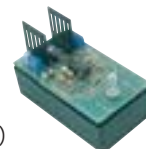
If you're not satisfied we'll take it back!

Details on page 246.

DC Motor Speed Control Kit ■ 35-piece kit

- This kit uses Pulse Width Modulation to vary the speed of a DC motor and maintain torque
- For motors up to 100VDC/5A max.

Requires: 5-16VDC supply (recommend P/N 114825CC, pg 162)



Part No.	Description	Dimensions	1	10
127829CC	Motor control kit	3.6"L x 2.3"W x 1.2"H	\$19.95	\$17.95

Unipolar Stepper Motor Driver Kit ■ 29-piece kit

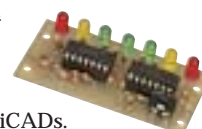
- Drives 5, 6 or 8 lead unipolar stepper motors
- Will drive unipolar stepper motors rated up to 6-30VDC @ 1.25A
- Onboard 5VDC regulator



Part No.	Description	Dimensions	1	10
139109CC	Stepper motor	2.6"L x 1.9"W x 1.0"H	\$29.95	\$26.95

DC Voltage Monitor Kit ● 46-piece kit

If battery status is important, you need this kit. It uses 7 LEDs to monitor 12VDC in 1V, 0.5V, or 0.25V steps. Monitor 8V or 5V in 0.25V steps. Great for boats, motor homes, model planes or race car NiCADs.



Part No.	Mfr. Cross Ref. No.	Dimensions	1	10
181833CC	VM-1	2.7"L x 1.3"W	\$8.95	\$7.95

Stepper Motor Controller Card & Motor Kit

■ 102-piece kit

This kit is very useful in any home automation project where positioning is needed, such as controlling valves, HVAC duct dampers, natural light through window blinds, remotely turning down water heaters, or any robotic projects. This controller card can be used with P/N 128928CC (K8000 – computer interface board) and 16 of these kits can be connected to a single computer interface board. Both bipolar and unipolar motors can be used with this controller card (1A max.). Includes a high precision stepping motor (0.9 degree stepping angle).

- IC controlled via P/N 128928CC (K8000)
- Check status of switches via computer interface board or drive another motor
- Power supply: 7 – 25VAC or VDC @ 1.5A (recommend, P/N 237067CC, pg 163)
- Emergency stop can be sent to one or all cards
- Programmable in Visual Basic, Turbo Pascal for DOS, and Quick Basic (Windows® 95/98/ME)
- Adjustable drive speed



Part No.	Product No.	Dimensions	Price
263628CC	K8005	3.9"L x 3.5"W	\$59.95

650nm Line and Dot Laser Diodes

143845CC/173243CC:

- Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating voltage: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

143845CC: Line laser module

- Laser line width: 1mm
- Laser fan angle: 60°

173243CC: Cross hair laser diode module

- Laser fan angle: 60°
- Female 2.1mm power connector
- Size: 3.0"L x 0.9"D

143837CC: Module regulated power supply

- Output: 5VDC @ 100mA
- Short circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.

143853CC: Laser module mount

- Built to hold laser diode on target
- X-Y tilt, θ movement
- Tightening screw for tilt adjustment

Class IIIa Laser Product



Part No.	Description	1	10
143845CC	Line laser diode module	\$114.95	\$103.95
173243CC	Cross hair laser diode mod.	89.95	80.95
143837CC	Regulated power supply	19.95	17.95
143853CC	Laser diode module mount	49.95	39.95

Green Laser Pointer

Even the sleepiest audience will sit up and salute when you whip out a laser pointer that's green, not red...and so bright, you could be standing nearly half a mile away. Using a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal technology, this laser projects a green beam so powerful you can see it against a clear sky at night. You won't believe how bright it is.

Hot Product!

Ultra-intense green beam is much brighter, goes much farther and is easier on the eyes than standard red lasers.

- Output wavelength: 532nm
- Output power: <5mW
- 90-day mfg. warranty

Includes: Metal gift box, clip and 2 AAA batteries

Part No.	Description	Price
223731CC	Green laser pointer	\$109.95 \$152.25

SALE

Order Anytime 24x7x365



Phone
1-800-831-4242
Fax
1-800-237-6948
Online
www.Jameco.com

ALPCC Laser Pointer w/ Key Ring

- Range up to 150 yards
- 650nm red laser
- One-year warranty

Includes: 2 coin cell batteries

Part No.	Description	Size (L" x Dia.)	1	10
153613CC	Laser pointer	2.1 x 0.5	\$16.95	\$14.95

Class IIIa Laser Product



Glass-Lens Red Laser Diode and Line Generator

133292CC: Laser Diode

This lens design uses 3-element glass to collect almost all the power from the laser diode resulting in a brighter spot than many typical laser applications.

- Operating voltage: 4.0-6.0VDC (recommend P/N 112070CC, pg 161)
- Maximum output: 4mW
- Beam size at 7m: oval - 5mm x 8mm
- Wavelength: 660nm
- Beam divergence: 0.2mrad
- Module size: 2.0"L x 0.5"W

134148CC: 60° Line Generating Lens

- Adjustable focus range: 50 cm to ∞
- Back focal length: 1.5mm
- Focal length: 8.0mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Fan angle: 60°
- Length at 1 meter distance: 1.7 m

Class IIIa Laser Product



Part No.	Description	1	10	25
133292CC	Glass laser diode	\$44.95	\$39.95	\$35.95
134148CC	60° lens	12.95	11.49	9.95

Bluetooth Smart Presentation Pointer

The best presenters know to "keep it simple," and this pen-sized presentation pal is the essence of simplicity. It provides easy, wireless "forward/backward" control of your PowerPoint slides, and incorporates a laser pointer into its go-anywhere, pen-format design. Bluetooth technology means plug-and-play set-up and solid control from up to 45 feet away!

Part No.	Description	Price
256428CC	Smart presentation pointer	\$59.95



Control your electronic slides from up to 45 feet away!

Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters/yards (daylight), 200 meters/yards (dark)
- Size: 0.9"L x 0.3"Dia.

Class IIIa Laser Product



Part No.	Description	Price
310519CC	Laser module, brass NEW	\$44.95

Laser Diode and Driver

182932CC: Laser Diode

- Optical output power: ≤ 5 mW maximum
- Operating current: 30mA
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- 5.6mm packaging size
- Beam divergence of 11 degrees from center line maximum

161736CC: Laser driver w/ regulator

- Input voltage: 2.6-6VDC
- Input current: 40mA

Part No.	Description	1	10	25
182932CC	650nm laser diode	\$11.95	\$10.79	\$9.69
161736CC	Laser driver	7.95	6.95	6.25



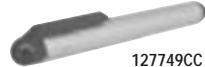
Laser Pointer Pens

- Range up to 500 yards
- 670nm red laser

Includes: 2 AAA batteries

Class IIIa Laser Products

Part No.	Description	Size (L" x Dia")	1	10
153605CC	Black pen	5.2 x 0.4	\$19.95	\$17.95
127749CC	Silver brass	5.4 x 0.4	21.95	19.95



Index of Electronics-Industry Books

	Description	Page
Microcontrollers	Easy Microcontrol'n, Beginner's Guide	11
	Electric Motors and Control Techniques	112
	Microcontrol'n Apps, PIC Microcontroller Applications	11
	PIC BASIC Programming and Projects	234
	PIC Microcontroller Project Book, Comprehensive Beginner's Guide	11
	Programming and Customizing the PIC	10
	Robot Builder's Bonanza	235
	Robot Builder's Source Book	235
	Serial Communications PIC Applications	11
	Time'n and Count'n, Intermediate Level PIC Apps	10
Computer	Complete Embedded Ethernet and Internet	181
	Controlling the World with Your PC	183
	Everything You Need To Develop Custom USB Peripherals	182
	Parallel Port Complete	181
Reference	Serial Port Complete	181
	Electronic Pocket Reference	52
	Hickman's Analog and RF Circuits	44
	How to Test Everything	195
	Making Your Own Printed Circuit Board	225
	Practical Electronics Book for Inventors	52
	Rechargeable Batteries Application Handbook	172
	TTL Logic Data Book, Texas Instruments	16



See next page for Ordering Information

Fax 1-800-237-6948 Order 24 hours/7 days a week!

Jameco, 1355 Shoreway Road, Belmont, CA 94002 Call: 1-800-831-4242 International TEL: 1-650-592-8097 FAX: 1-650-592-2503

1 Ordered By (We will ship to this address unless you enter #2).
Customer No. _____ **VIP No.** _____
(see back cover)

 Company

 Name of Requisitioner Title

 Name of Purchasing Agent Title

 Street Address/PO Box Number

 City State Zip Code

Contact information (please provide all information and check method preferred)

() _____
 Daytime phone number - Required for Credit Card Orders

() _____
 Fax Number

 E-mail Address

☐ Please check this box if you prefer not to receive special offers via e-mail from Jameco.

2 Ship To (Only required if different from #1)

 Company

 Name Title

 Street Address/PO Box Number

 City State Zip Code

3 Method of Payment





☐ Prepaid (check enclosed) ☐ C.O.D. (\$7.00 service charge)

☐ Net 30 Days (Account must be previously established. Authorized P.O. # required.)

PURCHASE ORDER NO.: _____

☐ Credit Card

Credit Card users only:

Credit Card Number

Exp. Date: Month Year Name on card _____

 Billing Address Street/PO Box City/State/Zip

4

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	PAGE NO.	WEIGHT (LBS.)	UNIT PRICE	TOTAL
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
					TOTAL WEIGHT	SUB-TOTAL	

5 Please Check Shipping Method Below

☐ **Priority Mail (USPS)**\$4.95 for 1st lb., \$1.99 for each additional lb.

☐ **Ground**\$6.95 for 1st 2 lbs., \$0.79 for each additional lb.

☐ **2 Day Air Service**\$13.95 for 1st 2 lbs., \$1.69 for each additional lb.

☐ **Next Day Air Service (AM delivery)**\$27.95 for 1st 2 lbs., \$2.49 for each additional lb.

☐ **Next Day Air Service (PM delivery)**\$19.95 for 1st 2 lbs., \$2.29 for each additional lb.

☐ **Foreign Shipment via Air Parcel Post**Shipping approximately 25% of order total. Excess fees will be refunded. Additional shipping methods available

Some restrictions may apply. See order information (next page) for other shipping methods and conditions of sale. Shipping rate is based on a single package shipment.

Add \$5.00 processing fee on orders under \$20	
Please Add Applicable Sales Tax (California Only)	
Shipping (See Item 5)	
C.O.D. (add \$7.00)	
Canada and Mexico Certificate of Origin (\$25)	
Credit Memo (please attach)	-
TOTAL	

6 **JAMECO** *thanks you for your order!*

FOR OFFICE USE ONLY

_____ / _____

Ordering Information

PAYMENT OPTIONS

Credit Card/Check Cards

We accept VISA, MasterCard, American Express and Discover. No surcharge. Your account will not be charged until your order is shipped. When ordering, please advise name on card and credit card billing address.

Check or Money Order

You may pay by check or money order in U.S. funds, drawn on a U.S. bank.

Open Account

It is easy to open an account with Jameco. Contact us for obtaining open account status.

C.O.D.

Personal checks are accepted. Please add \$7.00 per C.O.D. order. Include the name and address of your bank and your account number.

International Orders

All foreign orders must be prepaid with a credit card (see approved credit cards above), wire transfer, traveler's check, cashier's check or money order drawn on a U.S. bank in U.S. funds only. Please do not send cash. Jameco cannot accept letters of credit as a form of payment.

E-mail: international@Jameco.com.

SERVICES

30-Day Money Back Guarantee

If for any reason you are not completely satisfied with your purchase, simply return the product, in its original packaging, within 30 days for a refund, credit or exchange. Parts returned due to customer ordering error may be subject to a restock fee. Call our customer service department at 1-800-536-4316 or visit www.Jameco.com to request an RMA#. It should appear clearly on the outside of the box. Returns without an RMA# will not be accepted, and no freight collect packages will be accepted. A completed Jameco customer service form, located on the back of the packing slip, must be included with your return. We're sorry, but books, kits, software, grab bags and special orders cannot be returned. Special orders consist of products sold at an OEM quantity discount or products not listed in the Jameco catalog.

Jameco Warranty

Jameco warrants all merchandise against defects in material or workmanship for a period of 90 days from the original purchase date unless otherwise stated in writing by Jameco. If Jameco receives the product considered to be defective within this warranty period and the product is determined to be defective, Jameco will, at its sole option and discretion, either repair or replace the product. The foregoing is your sole and exclusive remedy and states Jameco's entire liability arising out of this warranty. [However, Jameco will transfer to customer whatever transferable warranties and indemnities Jameco receives from the manufacturer of the products. Any claims arising from such manufacturer's warranties shall be the sole responsibility of the manufacturer and not of Jameco.] Moreover, Jameco's limited warranty is void if the damage or defect has resulted from improper customer assembly, failure by customer to follow instruction, product modification, negligent or improper operation, accident, abuse or misapplication. Products returned to Jameco pursuant to this warranty must be returned to Jameco prepaid.

No Other Warranties

The limited warranty above is exclusive and in lieu of all other conditions and warranties for the products and documentation. Jameco makes no other conditions or warranties, express, implied, statutory or otherwise, and expressly disclaims all other conditions and warranties, including but not limited to, implied conditions or warranties of merchantability, fitness for a particular purpose, and non-infringement of the products.

Limitation of Liability

Jameco shall not be liable for any incidental, special or consequential damages for breach of any warranty, expressed or implied, directly or indirectly arising out of Jameco's sale of merchandise, including any failure to deliver any merchandise, or arising out of customer's installation or use, whether proper or improper, of the product, separately or in combination with other equipment, or from any other cause. Products sold by Jameco are not authorized for use as critical components in life support devices or systems.

5 EASY WAYS TO ORDER

Telephone: Toll-Free 24 hours a day!

1-800-831-4242

International orders,

call 1-650-592-8097

Toll-Free
FAX:

US/Canada: 1-800-237-6948

Brazil: 000-817-455-6119

Columbia: 980-9-136748

Indonesia: 1-803-015-237-6948

Mexico: 001-800-593-1449

New Zealand: 080-044-0470

Other Countries: 1-650-592-2503

Online:

<http://www.Jameco.com>

On-line catalog! Our complete offering of over 11,000 products searchable on the Jameco website!

Mail:

E-mail your order to:

sales@Jameco.com or fill out the order form (next page) and mail it to us.

In-Person:

Visit Jameco at 1355 Shoreway Rd., Belmont, CA. Will-call office hours are 8:00 a.m. – 5:00 p.m. Monday – Friday.

CONTACT INFORMATION

The following services are available at 1-650-592-8097 Monday – Friday from 6:30 a.m. – 5:00 p.m. PST or via e-mail:

- International Sales (international@Jameco.com)
- Customer Service (custservice@Jameco.com)
- Credit Department (credit@Jameco.com)
- Technical Support (tech@Jameco.com)

Toll-Free Hotline!

Please call us at 1-800-831-4242.

A Nuestros Clientes en

La Republica Mexicana: Si usted requiere tratar en Espanol y adquirir nuestros productos facturados L.A.B. Cd. De Mexico (libres de Aduana) y enviados al interior del pais via Estafeta, contacte con nuestro Representante y Distribuidor exclusivo;

Proyeccion Electronica de Mexico, S.A. de

C.V. a: General E-mail: info@proyel.com

Quote E-mail: jmc@proyel.com

Phone/Fax: 01-(55) 5273-5029

Direccion:

Benjamin Franklin No. 166 Desp. 1

Col. Escandon Deleg. Miguel Hidalgo

C.P. 11800 Mexico, D.F.

Los demas paises de Latinoamerica: Ya pronto tendremos servicio en su Region. Si usted tiene alguna duda o comentario respecto a los servicios de Jameco, contacte con la empresa arriba mencionada en la Ciudad de Mexico, ellos le pueden ayudar.

PRICES

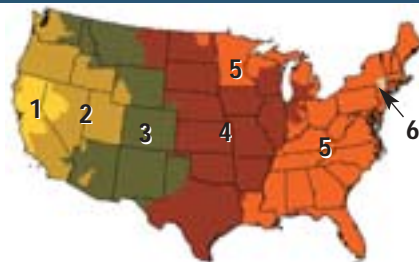
Prices are effective 01-10-05. In the unlikely event you find a lower price in a printed catalog or magazine, simply call us with the details at the time of purchase. We'll beat any price by 10% as long as it's above our cost. Prices and discounts are subject to change without notice. We are not responsible for any typographical errors in this catalog. Photos are representative; product appearance may vary.

ONLINE INFORMATION

Get answers to frequently asked questions on the Jameco website at:

<http://www.Jameco.com>

SHIPPING INFORMATION



Guaranteed Delivery Time for UPS Ground (Business Days)

- | | | |
|--------|--------|--------|
| 1 day | 2 days | 3 days |
| 4 days | 5 days | 6 days |

Orders received Mon.–Fri. by 6:00 p.m. Eastern Standard Time will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth \$5.00 towards your next Jameco purchase. This offer does not apply to orders waiting for credit approval or backordered items.

Options and Rates*



Shipping delivery times are based on working days.

Ground Service

Up to 6 working days for commercial address (up to 9 working days for residential).

Guaranteed delivery times may vary depending on zip code. \$6.95 for 1st 2 lbs.; \$0.79 for each additional lb.

2-Day Air Service

\$13.95 for 1st 2 lbs.; \$1.69 for each additional lb.

Next Day Air Service

- \$27.95 for AM delivery for 1st 2 lbs.; \$2.49 for each additional lb.
- \$19.95 for afternoon delivery for 1st 2 lbs.; \$2.29 for each additional lb.

Priority Mail (USPS)

\$4.95 for 1st lb.; \$1.99 for each additional lb. Order must be placed before 5:00 p.m. Eastern Standard Time to ship same day. Jameco reserves the right to rebill shipping surcharges for customer misaddressed packages.

* The above rates apply to single box shipments that are less than 50 lbs. Please call for shipping quote on packages greater than 50 lbs.

International Shipping & Handling

Shipping is via courier or postal service, depending on your preference, insurance availability, and the size and weight of your package. Jameco will apply actual shipping charges with a nominal handling charge on all foreign orders. For mail-in customers, please include 25% for shipping charges or call for a shipping quotation. All returns that meet postal requirements must be sent prepaid via air parcel post. All courier shipments to Canada and Mexico require a certificate of origin. Jameco will provide a certificate of origin for a \$25 processing fee.

POLICIES

Confirming Orders

Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

No Minimum Order

A \$5.00 processing fee will be added to orders under \$20.00.

A

A/D CONVERTERS	31,32,39
ACCELEROMETERS	240
ACCESS PANELS	178
ADAPTERS	
Audio/Video	86,87,191
Binding Post to BNC	204
BNC	104,105
Digital Audio Optical	87
Hard Drive	79
Infrared	182
Keyboard	79,103
Modular Telephone	83
Network	83
Null Modem	103
PLCC	225
RF	104
SCSI	103
Serial	103
SMA/SMB	104,106
SMD Adapters	231
Telephone	83
UHF	104
USB	81,103,183
Wall Transformers	159-164
ZIF	12,98
ALLIGATOR CLIPS/CONNECTORS	203,204
ANTENNA	74
ANTI-STATIC EQUIPMENT	217
APPLE/MACINTOSH PRODUCTS	79,170,188
AUDIO EQUIPMENT	
Amplifiers	241
Microphone (XLR) Connectors	89
Microphones	89,179
RCA Cables	86,87
Sound Cards	181
Speakers	130,179
Transmitters	241
AUDIO/VIDEO	
Audio Plugs/Jacks	88
Booster	83
Microphone (XLR)	89
Power Plugs/Jacks	89
RCA Plugs/Jacks	89
AUTOMOBILE PLUGS	109
AUTOMOBILE POWER INVERTERS	185,186

B

BANANA PLUGS/JACKS	204
BASIC STAMP CONTROLLERS	234-236
BATTERIES & ACCESSORIES	
Alkaline	169
Chargers	171
Holders & Snaps	173
Lead Acid	169
Lithium	170
Lithium Ion	170
NiCAD	170-172
NiMH	170,171
Rechargeable	170-172
Silver Oxide	169
Tester	173
Zinc Chloride	169
BINDING POSTS	204
BNC CABLES/CONNECTORS/ADAPTERS	104,105,205
BNC CONNECTOR REMOVAL TOOLS	214
BOOKS	10,11,16,44,52,112,181-183,195,225,234,235,237
BOTTLE, PUMP	222
BOXES	131,165,228
BRACKETS/MOUNTING RAILS	81,103,178,191
BREADBOARDS	225-227,229
BREAKOUT BOXES	206
BUFFER, PRINTER	185
BUG BOXES AND TRAYS	131
BUZZERS	131

C

CABINETS/ENCLOSURES	165,179,228
CABLE CRIMPERS	92,210,211,213
CABLE MARKERS	84
CABLE SLEEVES	84
CABLE STRIPPERS	92,210,213
CABLE TESTERS	183,184,206
CABLE TIES & CLAMPS	84,85

CABLE, ASSEMBLIES AND BULK

Adapter	80
Audio	86,87,178
BNC	105,205
Break-Out Box	206
Category 5 (UTP) Network	82
Category 5e	77
Category 6 RJ45 Network	82
Centronics	80
Coaxial	74,75,78
DB25-Pin Extension	80
Digital Audio Optical	87
Extension	79,80
Fiber Optic	101
Floppy Drive	79
F-Type Coaxial	87
Hard Disk Drive	79
IEEE 488/1284/1394 Cable	79-81
Keyboard	79,80,185
Management	84,85,179
Modem	80
Modular Telephone	83
Monitor	80,185
Mouse	80
Multi-Conductor	77
Network	82,83
Null Modem	80
Paired	58,76,77
Panel Bracket	103
Patch	86
Power Cords	137,167,168,184
Printer	79-81
RCA	86,87
Retractable (USB/Firewire)	81
Ribbon	78,79
SCSI	79
Serial	79,80
Shielded	78,80
SMA/SMB	106
S-VHS	86
Switch Box	80
Telephone	83
Testers	80,206
Ultra DMA 66	79
USB	81
Video, Patch	86
Video, RGB	80,87
CALIPERS	214

CAMERAS AND ACCESSORIES

Antennas/Boosters	190
Board	190
CCD	189,190
Dome	189
Enclosed	189,191
Infrared	189
Lenses	190
Mounts, Mounting Kits, Brackets	191
Siren	191
Surveillance	190
Transmitters/Receivers	190
Video Text Module	188
Wireless	189,190

CAPACITORS

Assortment/Kits/Grab Bags	62,63
Ceramic Disc	60
Dipped Tantalum	61
Electrolytic, Axial	59
Electrolytic, Large Can Aluminum	58,59
Electrolytic, Radial	58
Kits	62
Memory Back-Up	61
Monolithic, Ceramic	60
Mylar	61
Silver Mica	61
Surface Mount Capacitors	57
Tantalum	57
Trimmer, Ceramic	57

CARD READER

CARDS, COMPUTER

Camera Board	190
Controller	181
Data Acquisition	181
Diagnostic	181
Firewire	180
Input/Output	180,181
Interface	180,184
Modem	180
Network	180

Parallel	181
Prototyping	225,227,230
SCSI	181
Serial	180
Sound	181
USB	180
Video Graphics	181
CD-ROM DRIVES & ACCESS	178
CD-Rs	178
CHEMICAL CLEANERS & ACCESS	224
CHOKES	71
CIRCUIT BOARD MNTG. HDWR	132,228
CIRCUIT BOARDS	224,227,229
CLEANERS/DEGREASERS	224
CLIPS	
Alligator	204
Battery	173
Test	22,205
CLOCK CHIPS	30
CLOCK MODULES	30
CLOCKS/TIMERS	203
COMPASS MODULE	240
COMPONENT ASSORTMENTS	
Carbon Film Resistors	62,64
SMD Resistors	65
Springs	132
COMPONENT CABINETS	131
COMPUTER	
Accessories	178,244
Adapter	182
Board/Cards	180,181,184
Brackets	81,103,178
Cables, Int./Ext./Network	79,80,103,178,185
Cameras	189,190
Card Reader	182
Cases/Enclosures	177-179
CPU Fans	176
CPUs/MPUs	176
Data Acquisition, Cards/Software	181
Drives	177,178,182
Fans	178
Hardware/Brackets/Rails	81,178
Industrial Products	179,181
Keyboards	179,187
Keypads	187
Memory	177
Mice/Trackballs	187,190
Monitor	188
Motherboards	177
Power Cords	167,168,184
Power Supplies	186
Prototype Boards	227,229,230
Signal Converter	183
Switch Boxes	185
Video RAM	7
CONNECTORS	
ATX	95
Audio/Video	87-89
BNC	82,104,105
Card Edge	101
Centronics, IDC/PCB Right Angle	102
Centronics, Parallel Interface	102
Coax	104,105
Contacts	90,92,93,97
DIN	89,102
D-Sub, Hardware/Hoods/Crimp Housing	90,91
D-Sub, IDC/Solder Cup	90,91
D-Sub, PC Mount, Right Angle/Straight	91
F Type	86
Gender Changers	81,103
Header Housings	93-97,102
Headers	93-97,99,101,102,107
Housings, Square Pin	95,101
IDC Plug & Socket/Wire	101,102,109
Jones Plugs and Sockets	97
Modular/Telephone	82,83
Molex	93
Network	82,83
Pins, Crimp/Power	90-95,97
Power	92,93,95
RCA Jacks/Plugs	87-89
RF	105
Shorting Blocks	99
SMA/SMB	104,106
Telecom Splice	109
Telephone	83
Terminal Blocks	107
Twist On	109

USB	101
XLR	89
ZIF	98
CONSUMER PRODUCTS	
Miscellaneous	55,244
CONTROLLER CARDS	181
CONTROLLERS	
Micro	9-13,235
Motor	112,243
PIC	9-13
Robotics	235
CONVERTERS, DC-DC	
Encapsulated	152-155
Enclosed	154,155
Non-Isolated	151,152
Open Frame	152-155
CONVERTERS, SIGNAL	183
COOLERS, THERMOELECTRIC/CHIPS	178
CORDS, POWER	167,168,184
COUPLERS, SHAFT	237
CPU's	176
CRIMP PINS	90-95,97,101
CRIMPING TOOLS	92,210,211,213
CRYSTALS/OSCILLATORS	73,97

D

D/A CONVERTERS	31,32,39
DATA ACQUISITION	181
DATA BOOKS	10,11,16,44,52,112,181-183,195,225,234,235
DC/GEARHEAD MOTORS	114,115
DC-AC INVERTERS	185,186
DC-DC CONVERTERS	151-155
DESOLDER STATION & EQUIP.	217,219,222
DIGITAL I/O MODULES/CARDS	129,181
DIGITAL LABS	226
DIGITAL MULTIMETERS	193,195,196,202
DIGITAL PANEL METERS	175
DIN-RAIL PRODUCTS	151
DIODES	
Diac	43,49
Diacs/Triacs/Sidacs	48
General Purpose	42
Germanium	42
Infrared (LEDs)	53
Kits/Grab Bags	43,63
LED Displays	54
LEDs	51-53
Miscellaneous	47,48
Quadac	43
Rectifiers, Bridge, SCR	43,44,48
Surface Mount	42
Switching	42
Transient Voltage Suppressor	43,48,49
Triacs	43,48
Zener	42,47,48
DIP SWITCHES	123
DISPLAYS, LED & LCD	54,174,175
DISPLAYS, VIDEO TEXT	235
DRILL BITS	207
DRIVES, COMPUTER	
Accessories	79,178
CD-ROM	178
Floppy	178
Hard	177
PCMCIA	178
Thumb Drives	182

E-F

EDUCATIONAL ELECTRONIC LABS	226
EEPROMS	6,7
ELAB	30
ELECTRONIC KITS	127,203,233-243
EMI SUPPRESSION CORE	165
ENCLOSURES	131,165,177-179,228
EPROM ACCESSORIES	217,232
EPROM PROGRAMMERS/ERASERS	231,232
ESP SMT TOOLS & ACCESSORIES	229,230
ETHERNET PRODUCTS	180,182
FANS & ACCESSORIES	
AC Tube-Axial	136,137
Brushless DC	134-136
Cooling System	178
Cords	137
CPU Heat Sink w/ Fan	176
Filters	137
Guards	137
PC	178

FAX/MODEMS	183
FIBER OPTICS	101,239
FILES	212
FILTERS,PWR. ENTRY/LINE/AC PLUG	159,167
FIREWIRE CABLES	81
FISH TAPE	214
FLASHLIGHTS/ACCESSORIES	223
FLOPPY DRIVES/ACCESS	79,103,178
FLUORESCENT LAMPS	55
FREQUENCY COUNTERS	200,201
FUME EXTRACTOR & ACCESS.	217
FUNCTION GENERATORS	199-201
FUSES & ACCESSORIES	
Clips	72
Fuses	72
Holders	72
Resettable Fuses	72
Thermal (NTE)	49

G-H

GALS	13
GEARS	237
GENDER CHANGERS/ADAPTERS	81,103
GENERATOR, TELEPHONE RINGER	183
GIPB (IEEE-488)	
Cables	79
Cards, PC	181
GLUE GUN & STICKS	214
GRAB BAGS	63
GROUNDING/STATIC CONTROL	217
HALL EFFECT SENSORS	129
HARD DISK DRIVES/ACCESS	79,177,178
HARDWARE	
Cable Mounting	84,85
Computer Brackets	103
Drive Mounting	178
Fan Guards	137
Handles	132
Heat Sink Mounting	224
Kit	63,133
Knobs	133
LED Mounting	53
PCB Mounting	132,228
Prototype Enclosures	228
Rubber Feet	132
Screws, Nuts, Washers	91,132,179,228
Spacers	63,91,132,228
Standoffs	132
HEADER PLUGS	101
HEADERS	93,94,97,99,102,107
HEAT GUNS	206
HEAT SHRINK TUBING	85
HEAT SINKS & ACCESSORIES	
486/Pentium Heat Sink & Fan	176
Clip on	222
Compound	224
CPU	176
Heat Sink w/ fan	176
Mounting Kits	224
Thermo Pad	49
TO-3, TO-220	42
HOME OFFICE	
Printers & Accessories	182,188
Stapler/Staples	211
HOODS, D-SUB	90,91
HUBS	182

I

I/O CARDS	180,181
IEEE CABLE/ACCESSORIES	
1284	79,80
1394 (Firewire)	81
488 (GIPB)	79
Cards, PC	181
INDUCTORS, TOROID	71
INDUSTRIAL COMPUTING	179
INFRARED	
Cameras	189
Diodes	53,101
Kits	238,240
Remote Control Modules	240
Thermometers	202
USB Transceiver	182
INPUT DEVICES	
Accessories	79,80,244
Card Reader	182

Keyboards/Keypads	179,187
Mice/Pointing Devices	187,190
INTEGRATED CIRCUITS	
4000-CMOS Logic (DIP/SOIC)	26-28
5000 Series Processors	30
6500 Series Commodore Processors	8
6800/68000 Series Processors	8,9
7400-TTL (DIP)	27,28,63
74ABT-BICMOS Logic (DIP/SOIC)	18
74AC-CMOS Logic (DIP/SOIC)	14,15
74ACT-CMOS Logic (DIP/SOIC)	15,16
74AHC-CMOS Logic (DIP/SOIC)	17
74AHCT-CMOS Logic (DIP/SOIC)	17,18
74ALS-TTL (DIP/SOIC)	26
74ALVC-L.V. CMOS Logic (SOIC/TSSOP)	26
74C-TTL, CMOS (DIP)	27,28
74F-TTL (DIP/SOIC)	22,23
74HC-CMOS Logic (DIP/SOIC)	19,20
74HCT-CMOS Logic (DIP/SOIC)	21
74LS-TTL (DIP/SOIC)	23-25,63
74LVC-L.V. CMOS Logic (SOIC/TSSOP)	26
74S-TTL (DIP)	28
8000 Series Intel-Compatible	9,13,28
9000 Series	28
A/D & D/A Converters	31,32,39
Anachip/ICT PLDs	13
Analog, NTE	45
Atmel MCUs	12
Audio	34
BASIC STAMP/Accessories	13,235,236
Buffers	35
Clock Chips & Modules	28,30
Comparators	34,35
Converters	31,32
CPU's/MPUs	176
Dallas Semiconductors	28
Decoder/Encoder Chips	30,31
Digital Potentiometers	39
E-Lab Digital Interface	30
EPROMs & EEPROMs	6,7
Flash Memory	7
GALS	13
Hall Sensors	39
IC Assortments	26-28,34,41,43,63
Interface Series	30
Kits	26-28,34,41,43
Linear Series	38,39
Logic Circuits, NTE	45
Memory, DIMM and SIMM	177
Microcontrollers	9-13
Microprocessors	8,9
MPU Supervisory	28
NTE Replacement Semiconductors	45
Op Amps	35-37
Optoisolators	49,50
OTP/PROM	7,13
PALs	13
PEEL (PLD)	13
Pentium/Processor Chips	176
PIC Microcontrollers	9-12
Power Management	28,29
Prototyping Development Tools	212,230
RAM	7,8
RS-232 Drivers/Receivers	29
RS-422/485 Receivers	29,30
Servo & Stepper Motor Controller	31
Sockets	49,63,97,99,100
ST7 Micro MCUs	8
Storage Tubes	217
Temperature Sensors	39
Test Clips	22
UARTs	30
Voice Chips	13
Voltage Regulators	33,34
Voltage Regulators, Low Drop-Out	32,33
Voltage Regulators, NTE	45-47
Z8 MCU OTP	8
Z80 Series	8
Zilog MCU Flash	8
INVERTERS	185,186
ISOCOM OPTOISOLATORS	50

J-K

JACK SCREWS/HEX NUTS	91,132
JUMPER LEADS	226
KEYBOARDS	179,187

KEYCHAINS.....	244
KEYPADS.....	101,124,187
KITS, COMPONENTS	
Assortment.....	34
Capacitors.....	62,63
CMOS, CD4000 Series.....	27
Diodes.....	43,63
Grab Bags.....	63
Hardware, Mounting.....	63,133
IC Kit, 7400 Series.....	28,63
IC Kit, 74LS00 Series.....	26,63
IC Sockets.....	63,97
LED Hardware.....	53
LEDs.....	53,63
Linear ICs.....	34,63
Potentiometers.....	62,63
Refills.....	26,27,34,41,43,62,133
Resistors.....	62-64
SMD Resistors.....	65
Spring Assortment.....	132
Switches.....	63,123
Transistors.....	41,63
KITS, ELECTRONICS	
Audio.....	241
BASIC Stamp Programming.....	235,236
Clock.....	243
Compass Module.....	240
Educational.....	238,240
Electronic Locks.....	239
Fiber Optics.....	239
Infrared Transmitters and Receivers.....	240
Lightbulb.....	238
Liquid Level, Distance and Light.....	239,242
Motor Controller.....	243
PC Photo Etch.....	224
PCB Design Kit.....	224
Power Supply.....	243
Radar.....	238
Relay Controller.....	238
Robotic.....	237
Solar.....	233,234
Sound Generation and Detection.....	242
Speech and Recognition.....	242
Test & Measurement.....	52,240
Timers.....	203,243
Velleman.....	238-243
KNIFE SET.....	214
KNOBS.....	133

L-M

LAMPS AND ACCESSORIES	
Fluorescent.....	55
Incandescent.....	55,56
Magnifier/Desktop.....	223
Neon.....	55,56
Panel Mount.....	55
Power Supplies.....	55
LAPTOP PRODUCTS	
Cables.....	168
Cards.....	180
Mobile Computing.....	182,244
LASER	
Accessories.....	244
Diodes.....	244
Pointer.....	244
Tachometer.....	201
LCD DISPLAYS/MODULES.....	174,175,188
LEADS, TEST.....	183,203-205
LED HARDWARE.....	53
LEDs	
Accessories/Hardware.....	53,63
Cable Assemblies.....	55
Clusters.....	55
Displays.....	54
High Output.....	52,53
HLMP Series.....	52
Infrared.....	53,238
Kits/Grab Bags.....	53,63
NTE.....	49
Panel Indicators.....	55
Standard Output.....	51-53
LENSES (Camera).....	190
LIGHT METER, DIGITAL.....	202
LINE SEPARATOR, AC.....	203
LOGIC PROBE AND PULSER.....	200,203
MACINTOSH PRODUCTS.....	79,170,188
MAGNETIZER/DEMAGNETIZER.....	214

MAGNIFYING GLASSES/LAMPS.....	223
MARKERS.....	84
MEMORY	
Batteries.....	170
Capacitors.....	61
DIMM.....	177
EDO.....	177
SIMM.....	177
METERS	
Benchtop.....	195,196
Clamp.....	203
DMM.....	193,195,202
Environmental.....	201,202
LCR.....	195
Pocket.....	193,194
Temperature/Time.....	202
MICE AND ACCESS.....	187,190
MICROCONTROLLERS.....	9-12
MICROPHONE	
Cartridge/Condenser.....	130
PC Desktop.....	179
MICROPROCESSOR CRYSTALS.....	73
MICROPROCESSORS.....	8,9,176,235
MODEMS/FAX.....	183
MODULAR JACKS & ADAPTERS.....	82,83,104
MODULATORS.....	191
MONITOR STAND/BRAKETS.....	191
MONITORS.....	188,189
MOTHERBOARDS.....	177
MOTION DETECTOR.....	239
MOTOR CONTROLLERS.....	112,243
MOTORS	
DC.....	113,114
Geared.....	114-116
Servo/Radio Controlled.....	236
Shaft Couplers.....	237
Stepper.....	110,111
Stepper Controllers.....	112,243
Vibrating.....	115,116
MOUSE PAD.....	187
MULTIMEDIA.....	179,188
MULTIMETER TEST PROBES.....	203-205
MULTIMETERS.....	193-196,203
MUSCLE WIRE.....	239

N-O

NETWORK PRODUCTS.....	82,83,180,182-184
NUTS.....	91,132
OPTICAL SWITCHES.....	50
OPTOELECTRONICS.....	50
OPTOISOLATORS.....	49,50
ORDER FORM AND INFORMATION.....	245,246
OSCILLATORS/CRYSTALS.....	73
OSCILLOSCOPES/ACCESSORIES.....	198,200

P-R

PALS.....	13
PANAVISE.....	102,221,222
PANEL METERS.....	175
PATCH CORDS.....	82,204
PATCH PANELS.....	179
PC BOARDS/EXTENDERS.....	225,227,229,230
PC PHOTO ETCH.....	224
PCB DEVELOPMENT TOOLS/ACCESS.....	224
PCI CARDS.....	180,181,225
PEELS.....	13
PHONE JACKS.....	82,83
PHONE LINE FILTERS (DSL).....	183
PHOTO TRANSISTORS.....	50
PHOTOCELLS.....	50
PIC MICROCONTROLLERS.....	9-13
PIN INSERT/EXTRACT TOOLS.....	93
PLDs.....	13
PLUGS	
Banana.....	204
DIN, IDC, DIP.....	89,101,102
Power Entry.....	159,167
Power, Low Power.....	86,109
RCA.....	88,89
POTENTIOMETERS	
Adjustment Tool.....	214
Audio Taper.....	66,67
Bourns.....	68,69
Cernmet.....	68-70
Clarostat.....	66

Digital.....	39
Kits/Grab Bags.....	62,63
Linear Taper.....	66-68
Trimmer.....	68-70
POWER BASES/STRIPS.....	184
POWER CONNECTORS/PINS	
AC Plug.....	159,167
AT/ATX Motherboard.....	95
Disk Drive, Power Supply.....	95
Entry Filter.....	167
Kits.....	93
Pins.....	94,95,97
Plugs/Receptacles.....	92
POWER CONVERTERS.....	151-155,186
POWER CORDS/ADAPTERS.....	137,167,168,184
POWER ENTRY & LINE FILTERS.....	167
Entry Filter.....	167
POWER INVERTERS.....	185,186
POWER JACKS/PLUGS.....	86,88,89,109
POWER PINS.....	94,95,97
POWER PROTECTION.....	184
POWER SUPPLIES	
AC Variable Transformers.....	165
AC/DC.....	138-150,156-159
Benchtop.....	196-198
Breadboard.....	226
Computer.....	186
DIN-Rail.....	151
Enclosed.....	144-151
Kits.....	243
Linear.....	151,156,158
Low Leakage.....	138,139,159
Medical.....	139,159
Open Frame.....	138-144
Switching.....	138-157,159
Table-Top.....	156-158
Unregulated.....	158
Wall Adapters.....	159-164
POWER TOOLS.....	207
POWER TRANSFORMERS.....	165,166
PRESSURE SENSOR.....	129
PRINTED CIRCUIT BOARD SUPPLIES.....	224,227
PRINTERS & ACCESSORIES	
Auto Switches/Switch Boxes.....	185,188
Buffers/Sharers/Networks.....	182,185
Printer.....	188
PROBES.....	183,198,200,203,205
PROGRAMMERS.....	12,231,232
PROMs.....	7,13,28
PROTOTYPE ADAPTER.....	225
PROTOTYPE BOARDS.....	225,227,229,230
PROXIMITY SWITCH SENSORS.....	129
PUNCH DOWN TOOLS.....	213
RACKS, TEST LEAD.....	205
RACKS/RACK MOUNT EQUIP.....	178,179
RAM.....	7,177
RCA, JACKS/PLUGS/CABLES.....	87-89
RECTIFIERS.....	43,44,48
RELAYS	
DIP.....	127,128
General Purpose.....	125-128
PCB.....	126,127
Power.....	126,127
Reed.....	128
Sockets.....	126,127
Solid State.....	125,128
Time-Delay.....	126
RESETTABLE FUSES.....	72
RESISTORS	
Assortments.....	62,64
Carbon Film.....	62,64
Kits/Grab Bags.....	62,66
Network.....	64,65
Surface Mount.....	65
RFI POWER/LINE FILTERS.....	167
ROBOTICS.....	236-238
ROTARY SWITCHES.....	123
RUBBER FEET.....	132

S

SATELLITE TV	
Coax CATV.....	74
Connectors.....	86
SCREWS.....	91,132,179
SCRs.....	43

SECURITY.....	188-191
SENSORS	
Hall Effect.....	129
Light.....	53
Liquid.....	129
Pressure.....	129
Proximity.....	129
Ultrasonic.....	129
Vibration.....	129
SERVO/CONTROLLERS.....	112,236,243
SHAFT COUPLERS.....	237
SHORTING BLOCKS.....	99
SIMMS.....	177
SOCKETS & ACCESSORIES	
Adapters.....	97,98
Assortment, Kits/Grab Bags.....	63,97
DIN.....	102
DIP.....	99,100
Header Plugs.....	101
IC.....	49,98
Machine Tooled.....	99,100
Oscillators.....	73,97
PLCC.....	98,100,230
PLCC Prototype Adapter.....	225
Relay.....	126
SIMM/SIPP.....	99,100
Slim Line.....	100
Sockets.....	126,127
Solder Tail.....	99,100
Wire Wrap.....	100
Wire Wrap ID Labels.....	100
ZIF.....	98,99
SOFTWARE	
PIC Programmer.....	230
Reference.....	10,181,183
SOLAR PRODUCTS	
Cells.....	234
Chargers.....	234
Kits.....	234,237
Lights.....	191,233
Miscellaneous.....	233,234
Modules.....	233
Panels.....	233,234
SOLDER/DESOLDERING EQUIP.	
Accessories.....	217,219,220,222
Pots.....	217
Pump.....	217
Solder.....	217,220,222
Sponges.....	219
Stations/Irons/Kits.....	217-222
Tips.....	217-221
Tools.....	221
SOLDERLESS BREADBOARDS.....	225,229
SOLENOIDS.....	11
SOUND CARDS.....	18
SOUND DEVICES/BUZZERS.....	130,131
SPACERS.....	63,91,132,133,228
SPEAKERS.....	130,179
STANDOFFS.....	63,132,133,228
STATIC CONTROL.....	217
STATIC RAM.....	8
STEPPER MOTOR/CONTROLLERS.....	31,112,243
STEPPER MOTORS.....	110,111
STOPWATCHES.....	203
STORAGE, CABINETS.....	211
STRAIN RELIEF BUSHINGS.....	85
SUBSTITUTION BOXES.....	226
SURFACE MOUNT	
Capacitors.....	57
Cases, Storage.....	131
Diode.....	42
PLCC Sockets.....	100
Resistors.....	65
Tools.....	218,229,230
Transistors.....	40,41
SURGE PROTECTORS.....	184
SWITCH BOXES/CABLES.....	80,185
SWITCHES	
AT Computer.....	123
Binary.....	117,123
DIP.....	123
General Purpose.....	117
Keylock.....	117
Kit/Grab Bag.....	63,123
Magnetic Reed.....	123
Optical.....	50
Pushbutton.....	117-119,123
Rocker.....	122
Rotary.....	123,124

Sensor.....	129
Slide.....	119
Snap Action.....	117
Tactile.....	124
Thumbwheel.....	117
Toggle.....	120,121
T	
TABLE-TOP POWER SUPPLIES.....156-159	
TAPE.....	85
TAPE MEASURE.....	214
TECH SPRAY CHEMICALS & ACCES.....	224
TELEPHONE ACCESSORIES.....	183
TELEPHONE CONNECTORS.....	82,83,109,183
TEMPERATURE/TIME METERS.....	195,202
TERMINALS	
Blocks.....	95,107
DIN Rail Blocks.....	107
European.....	107
Solderless.....	108
Twist On.....	109
Wire Wrap.....	227
TEST EQUIPMENT	
Anemometer.....	202
Benchtop.....	196
Benchtop Power Supplies.....	196-198
Cable/Interface.....	183,184,195,198,206
Current Clamp Meter.....	203
Environmental.....	201,202
Fluke.....	193,195,198,199
Frequency, Counter/Generator.....	200-202
IC Test Clips.....	22
Leads/Probes.....	183,194,195,198,200,203-205
LED.....	52
Light Meter, Digital.....	202
Line Separator.....	203
Logic Probe.....	200,203
Multimeter, Analog/Digital.....	193-196,202
Multimeter, Benchtop.....	196
Oscilloscopes.....	198-200
Probes.....	194,198,200,203,205
Programmers/Testers.....	231,232
Shunt.....	203
Signal Generator/Analyzer.....	200
Software.....	195,198
Sound Level Meter.....	202
Substitution Boxes.....	226
Tachometer.....	201
Thermometers.....	202
Tone/Telephone.....	183
Voltage/Metal Detectors.....	194,240
TEST LEADS/PROBES/CLIPS.....	22,183,194,195,203-205
THERMISTORS, NTC.....	71
THERMOELECTRIC COOLERS/CHIPS.....	178
THERMOMETERS.....	202
TIE MOUNTS.....	84,85
TIME/TEMPERATURE METERS.....	195,202
TOOL KITS.....	184,207-216,229,230
TOOLS	
Anti-Static.....	217
Bits (Rotary).....	207
Calipers.....	214
Cases.....	216
Center Punch.....	212
Compression.....	211
Crimping/Stripping/Cutting.....	92,209-214
Drills.....	207
File Sets.....	212
Fish Tape.....	214
Glue Gun.....	214
Grinder (Electric).....	207
Heat Guns.....	206
Hemostat.....	211
IC.....	230
Insertion/Extraction.....	90,93,214,230
Kits/Sets.....	207-212,214-216,229,230
Knife Set.....	214
Lead Forming.....	211
Miscellaneous.....	85,218,229,230
Nibbling.....	211
Pliers.....	208,209
Pocket Multi-Tool.....	211
Power.....	207
Punch-down.....	213
Ratchet/Socket Drivers.....	208,212
Reamer.....	212
Rivet.....	211

Saws.....	214
Screw/Nut Drivers.....	206,208
Soldering.....	217-222
Spring-Hook.....	214
Stapler/Staples.....	211
Tape Measure.....	214
Tweezers.....	212,223
Vises.....	102,221,222
Wire Wrap.....	212
Wire/Coax Cutters/Strippers.....	210,213
Wrenches.....	208,212
TRANSFORMERS	
Current.....	70
International Step Up/Down.....	167
Isolated.....	165
Modem Coupling.....	71
Power/Split Bobbin.....	165,166
Quick Connect.....	166
Table-Top.....	165
Variable.....	165
Wall (AC and DC).....	159-164
TRANSIENT VOLTAGE SUPPRESSORS.....43	
TRANSISTORS.....	40-42,46-49,63
TRANSMITTER, CAMERA.....	190
TRIAC COUPLER.....	50
TRIACS.....	43
TWEEZERS.....	212,230
U-Z	
UARTs.....	30
ULTRASONIC SENSORS.....	129,239
UPS SYSTEMS.....	184
USB PRODUCTS	
Adapters/Connectors.....	81,101
Cable.....	81
Cards.....	180
Hubs.....	182
Miscellaneous.....	81,182,190,244
Pocket/Thumb Drives.....	182
UVP EPROM ERASERS.....	232
VACUUM PENS.....	218
VARISTORS.....	49,71
VGA/VIDEO CARDS.....	188
VIDEO ADAPTERS.....	191
VIDEO CONVERTERS.....	188
VIDEO MODULATORS.....	191
VIDEO MONITORS.....	188
VIDEO RAM.....	7
VISES.....	221,222
VOICE CHIPS/MODULES.....	13,242
VOLTAGE REGULATORS.....	32-34
WALL ADAPTERS	
AC to AC.....	164
AC to DC.....	158-164
AC/DC Switching.....	160
Enclosures.....	165
Interchangeable Plug.....	159
Medical.....	159
WALL JACKS/PLATES.....	82,83
WALL MOUNTS, TV/MONITOR.....	191
WASHERS.....	91,132
WIRE & CABLE MANAGEMENT.....	84,85
WIRE JUMPERS.....	226
WIRE/CABLE, BULK (Also Cable Assemblies)	
Coaxial Cable.....	74,75,78
Computer Cable.....	78
Flat Ribbon Cable.....	78
Flexinol.....	239
Hookup Wire, Solid/Stranded.....	75,78,79
Markers.....	84
Modular Telephone Cable.....	78
Muscle Wire.....	239
Power/Speaker Wire.....	78
Retractable.....	81
Speaker.....	75
Telephone.....	78
Ties.....	84,85
Tools.....	84
Twisted Pair/Category 5 (UTP).....	76-78,82
Twisted Pair/Category 5e (UTP).....	76,77
USB.....	81
Wire Management.....	84,85
Wire Wrap.....	78
WIRELESS PRODUCTS.....	187,189,190
ZENER DIODES.....	42

A

3Com	164, 180
3M.....	82, 84, 85, 109, 132, 217
Aavid Thermalloy.....	42
ACDC.....	151
ACI World.....	163
Adcom	158
Adda	134, 135, 137
AEEC.....	192
AESP.....	161, 163
AK II Power Supply.....	160
AldenWrench.....	212
Alpec.....	244
Alpha.....	66, 67
AmbiCom.....	182
American Media.....	186
American Zettler.....	128
AMP.....	90, 94, 108
Amphenol.....	104
Ample.....	175
AMS.....	178
AnaChip/ICT	39
APM.....	119
APS.....	158, 163, 186
APX Technologies.....	161, 163
Aries.....	97, 98, 99
Aromat.....	127, 128
ART.....	232
Artesyn.....	139-144, 151-155
Astrodyne.....	138
Atari.....	162, 163
ATEN.....	81, 183, 185, 188
Atmel.....	12
Ault.....	156, 157, 160, 164
Autec.....	142
AVerMedia.....	188

B-C

Belden.....	58, 74-77
Belkin.....	182
Bellin Dynamic Systems, Inc.....	229
BelMerit.....	193
Beta.....	127
Bi-Sonic.....	137
BK Precision.....	201
Black Magic.....	183
Bomar.....	83
Boston Acoustics.....	179
Both Hand	163
Bourms.....	68, 69
Brother.....	158
Bug Box.....	131
Calrad.....	163
Capital Advanced Technologies, Inc.....	229
Casio.....	188
Cebek.....	241, 243
Cheng.....	135
Cherokee.....	144
China Semiconductor.....	54
ChipQuik.....	229
Cinch.....	97, 107
Circuit Assembly.....	100, 101
Cisco.....	156
Clare.....	128
Clarostat.....	66
Climax.....	237
Common Wealth.....	134-136
Compaq.....	186, 187
COMPEX.....	180
Comtrend	164
Converter Concepts.....	140
Creative.....	181
Crossbow.....	240
Crydom.....	128
CUI Stack.....	163

D-E

Dallas Semiconductors.....	7, 8, 28
DataK.....	224
Dantona.....	171
Decade.....	188
Delta.....	134, 135, 142, 156, 160

Digital Power.....	144
DigiVue.....	190
Dinkle.....	107
Drake.....	163
Duracell.....	169
DVE.....	156, 160
EE Tools.....	231
E-Lab.....	30
Elpac.....	157
Emacs.....	186
Emerging Display Technologies.....	175
Encad.....	142
Enhance.....	186
EOS.....	142, 156
ESP.....	230
Eveready Energizer.....	169
Everglow.....	156, 158, 162-164
Excel.....	128
Excel Cell Electronics (ECE).....	128
Explore Tech	163
Exttech.....	183, 193-198, 201-203, 226
EZ Digital.....	196, 197, 199, 200

F-H

Fairchild.....	14, 15, 17-23, 28, 40
Fairway Elec.	161
Fellowes.....	163
Fluke.....	193, 195-199, 203
Focus Enhancements.....	188
Fortron.....	145, 157
Freeplay.....	163
Frino.....	164
Fujikura.....	129
Fulltech.....	136, 137
Gateway.....	187
GBM.....	110, 111, 113
GC/Waldom.....	92
Global Village.....	161
Globe Motors.....	134-136
GlobTek.....	147, 156, 159, 160, 164
Go Forward	156
Grayhill.....	123, 124
GTE.....	163
Hanlong.....	210, 211, 214, 230
Harman/Kardon.....	179
Hewlett Packard.....	51, 54
High Power	161, 186
Highly Electric.....	117, 129
Hightext Publishing.....	183
Hi-Lo Systems.....	232
Hipro.....	186
Honeywell.....	117
Honeywell/Clarostat.....	66
Horizon.....	156, 161-164
Hsiang Neng.....	114

I-L

I.T.E.....	156
IBM.....	182
Ideal.....	210
IERC.....	42
Imitation.....	161
Industrial Fiber Optics.....	101
Instek.....	196, 198, 200, 201
Integrated Power Design.....	142
Intel.....	176, 177, 182
Interex.....	160
I One (formerly Qtronix).....	177, 187
ISD.....	13
Isobar.....	184
ITE Power Supply.....	164
Jamicon.....	134-136
JDV Products.....	100
Johnson Electric.....	114
Judd Wire.....	78
JV Enterprises.....	225
KAE.....	31, 112
Kester.....	222
Kouwell	181
Kulka.....	107
Kynar.....	78
Kyoto.....	128

Lakeview Research.....	181, 182
Lambda.....	144
Lascar.....	197
Leader Electronics.....	162, 164
Leap.....	184, 232
Ledtech.....	52-54
Li Shin	156
Ligitek.....	55
LiteOn.....	54
Lite-On.....	142

M

Mabuchi Motor	114
Mastech.....	193-197, 203
Matrix Orbital.....	174
McGraw-Hill.....	10, 11, 52, 235
Mean Well	139-157, 160, 164, 186
Measurement Computing.....	180, 181
Mechatronics.....	134, 136
MEI.....	161
Memorex.....	187
Metex.....	161, 193-198, 200, 201
MG Electronics.....	164
Micro Engineering Labs.....	12, 230
Microchip	9-12
MicroMint.....	13
Mission Technology.....	199
Mitsumi.....	114
Molex.....	90, 92, 93, 96-98, 214
Mondo-Tronics.....	239
Motorola.....	129, 158, 164
Mountain Switch (Xicor).....	119

N-P

Namiki.....	116
National Semiconductor.....	14, 15, 17, 19, 20-22, 28, 40, 51, 54
NEC.....	128
Netgear.....	182
Newnes Publishing.....	44, 234
Nichibo.....	113, 114
Nidec.....	134, 135
NiteRider.....	163, 164
Nitgen.....	187
NMB.....	135-137
NOMA.....	161
Noostuff, Inc.....	163
NTE.....	45-49
Ocular, Inc.....	175
Omron.....	117, 124, 127
On Semiconductor.....	14-21, 28, 40, 189
Optrix.....	175
ORB.....	161
Orig. Elec. Mfg.....	164
OST.....	107, 151
OWI.....	237
Pabst	136
Pacific Data.....	158
Pacrim.....	164
Paladin Tools (ConnectTool).....	206, 213
Panaflo.....	135
Panasonic.....	54, 163
Panavise.....	102, 221, 222
Parallax.....	13, 176, 235, 236
PC Power	186
Pentium	176
Phihong.....	138, 140, 141, 156, 157, 159, 160
Philips.....	14-22, 27, 160
Phoebe	180
PhoneMate.....	164
Picvue.....	175
Pomona.....	200, 204, 205
Pontech.....	112
Potrans	160
Potter & Brumfield.....	125, 126
PowerFilm.....	191, 233, 234, 237
Power-One.....	140, 142
Powmax	186
Precision Navigation, Inc.....	240
Probe Master.....	200, 205

Protek.....	196, 199, 201
-------------	---------------

Q-S

QSE.....	163
Qtronix.....	187
Quotrek.....	163
Racal.....	164
RAF Elec. Hardware.....	132
RCA.....	184
Regal.....	142, 158, 163
RMV Electronics.....	112
ROHM.....	54
Rotron.....	137
Salom Electric.....	161
Samsung.....	40
SanDisk.....	182
Scott Edwards.....	112, 174
Senix.....	239
Sensory, Inc.....	242
Servoflo.....	129
Shin Mei.....	128
Shogyo.....	164
Siemens.....	164
Sincore.....	164
Skyenet.....	158
SL Waber.....	184
Smart Communications.....	232
Sony.....	178, 189, 190
Soyo.....	179, 187
Sparkle Power.....	186
Square 1 Publishing.....	10, 11
ST.....	19, 20
St. Micro.....	40
Stanley.....	208
Star Motor.....	114
SUN Microsystems.....	187
Sunon	134-137
Super Mac.....	138
Superworld.....	162, 163
Switchcraft.....	88, 89, 117

T-U

Tab Publishing.....	44, 112, 195, 235
Tamura.....	138
TEAC.....	178
Tech Spray.....	222, 224
Techflex, Inc.....	84
Telco.....	114
Tempest.....	169
Texas Instruments	12-25, 52, 54
Thames & Kosmos.....	240
Thermalloy.....	42
Three-Five Systems, Inc.....	51
TODD.....	144
Toshiba.....	14-21, 28
Toyo.....	134, 135, 136
Tripp-Lite.....	184
Trisys.....	174
Tysonic	169, 171
Ultra-X.....	181
Uniden.....	163
Uniq.....	163
US Robotics.....	164
UVP.....	232

V-Z

VCC.....	53, 55
Vector.....	227
Velleman.....	55, 127, 198, 199, 238-243
Vishay.....	40
VL.....	174
Volgen.....	145-147
Wahl.....	206, 220
Wakefield.....	42
Wavetek/Meterman.....	195, 201
Weller.....	206, 218, 220
Western Digital	177
Westinghouse.....	157
Xcelite.....	208, 209
Xeltek.....	231
Xircor.....	162
Xtreme Power.....	186

Great Deals Across Our Product Line!

Great Deals!

We offer GREAT DEALS across our entire product line. Take a look below and see why we're proud of our Great Products and Awesome Prices!

Great Deals!

CMOS Logic, DIP

Save Up to 50%

Save 40% or more on your next CMOS logic purchase. Our recently-expanded offering includes 74ACT, 74AHCT and 4000 Series products on pages 15-27.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
211895CC	74AC240	\$0.30	\$0.50	\$0.66	\$0.62	\$0.20	40.0%
211908CC	74AC244	\$0.29	\$0.50	\$0.66	\$0.62	\$0.21	42.0%
13012CC	CD4046	\$0.30	\$0.52	\$2.23	\$0.52	\$0.22	42.3%
13071CC	CD4050	\$0.25	\$0.50	\$0.60	\$0.50	\$0.25	50.0%
13581CC	CD4520	\$0.33	\$0.48	\$0.58	\$0.48	\$0.15	31.3%

74ABT Series Logic, SMD

Save Up to 27%

Jameco offers great savings in logic products. Be sure to check out the great prices we offer in SMD devices too. See page 18 for more great savings!



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
290837CC	74ABT125D	\$0.45	\$0.64	\$0.68	\$0.48	\$0.03	6.2%
291178CC	74ABT244AD	\$0.59	\$0.72	\$0.91	\$0.86	\$0.13	18.1%
291194CC	74ABT245BD	\$0.59	\$0.72	\$0.91	\$0.86	\$0.13	18.1%
291240CC	74ABT373D	\$0.59	\$0.72	\$0.91	\$0.86	\$0.13	18.1%
291426CC	74ABT541BD	\$0.58	\$0.80	\$1.26	\$0.90	\$0.22	27.5%

74ALS Series Logic, DIP

Save Up to 38%

Jameco offers a broad selection of logic families to meet your design requirements, and each is priced to save you significant amounts of money. See page 26 for the 74ALS family.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
245753CC	74ALS240A	\$0.49	\$0.80	\$0.99	\$0.80	\$0.31	38.8%
245761CC	74ALS244A	\$0.53	\$0.72	\$0.92	\$0.72	\$0.19	26.4%
245770CC	74ALS245A	\$0.45	\$0.72	\$0.96	\$0.72	\$0.27	37.5%
245809CC	74ALS374A	\$0.49	\$0.72	\$0.87	\$0.72	\$0.23	31.9%

74LS Series Logic

Save Up to 45%

Yes, even tried and tested logic products like 7400 and 74LS series are priced well-below market price. Look to pages 23-25 for savings of 40% or more.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
48004CC	74LS74	\$0.36	\$0.50	\$0.69	\$0.50	\$0.14	28.0%
47167CC	74LS241	\$0.36	\$0.64	\$0.48	\$0.64	\$0.12	25.0%
47870CC	74LS541	\$0.46	\$0.84	\$0.89	\$0.84	\$0.38	45.2%
308304CC	TI, SN74LS241N	\$0.40	\$0.64	\$0.48	\$0.64	\$0.08	16.7%
308523CC	TI, SN74LS541N	\$0.50	\$0.84	\$0.89	\$0.84	\$0.34	40.5%

Radial Electrolytic Capacitors

Save Up to 73%

Electrolytic capacitors may all look the same, but they're certainly not priced the same! See page 58, then reduce your costs by purchasing from Jameco.



Jameco Part No.	Description	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
93825CC	470uF, 50V, 20%	\$0.29	\$0.52	\$0.44	\$0.44	\$0.15	34.1%
158465CC	470uF, 63V, 20%	\$0.30	\$1.15	\$1.23	\$1.21	\$0.85	73.9%

Data Transmission

Save Up to 62%

Save more than 18% on devices to drive your communications signals reliably. See pages 29-30 for our complete line of money-saving products.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
50948CC	75174N, DIP	\$0.76	\$1.44	\$1.37	\$1.44	\$0.61	44.5%
51027CC	75451, DIP	\$0.39	\$0.48	\$0.68	\$0.48	\$0.09	18.8%
23181CC	DS1489N, DIP	\$0.23	\$0.50	\$0.28	\$1.04	\$0.05	17.9%
16361CC	DS14C88N, DIP	\$0.57	\$1.50	Not offered	\$1.64	\$0.93	62.0%
252427CC	MC3486D, SOIC	\$0.66	\$0.80	\$1.01	\$1.32	\$0.14	17.5%
252961CC	MC3487D, SOIC	\$0.65	\$1.31	\$0.96	\$0.80	\$0.15	18.8%
256081CC	SN75189N, DIP	\$0.69	\$0.96	\$0.86	\$0.96	\$0.17	19.8%

Operational Amplifiers

Save Up to 52%

Looking for a comparator or op amp at a great price? Take a look at our large selection on pages 35-37 and see how much money you can save when buying from Jameco!



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
22904CC	LF347N, DIP	\$0.36	\$0.79	\$0.56	\$0.59	\$0.20	35.7%
193640CC	LF412CD, SOIC	\$0.41	\$0.87	\$0.89	\$0.87	\$0.46	52.9%
212169CC	LM324AN, DIP	\$0.25	\$0.48	\$0.36	\$0.98	\$0.11	30.6%
246588CC	LM358AM, SOIC	\$0.23	\$0.57	\$0.34	\$0.34	\$0.11	32.4%
33187CC	TL071CP, DIP	\$0.27	\$0.48	\$0.59	\$0.48	\$0.21	43.8%
214084CC	TL084ACN, DIP	\$0.49	\$0.88	\$0.93	\$0.88	\$0.39	44.3%

Optocouplers

Save Up to 42%

Jameco offers a wide selection of optoisolators and each is priced to save you money. See page 50 for everything from switches to darlington and triac drivers.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
277464CC	4N36, DIP	\$0.20	\$0.52	\$0.33	\$0.56	\$0.13	39.4%
277510CC	6N135, DIP	\$0.54	\$0.86	\$0.90	\$0.86	\$0.32	37.2%
277561CC	H11A1, DIP	\$0.27	\$0.52	\$0.47	\$0.48	\$0.20	42.6%
24918CC	MCT6, DIP	\$0.56	\$0.87	\$0.96	\$0.84	\$0.28	33.3%
277801CC	MOC3022, DIP	\$0.49	\$0.93	\$0.81	\$0.77	\$0.28	36.4%
277819CC	MOC3023, DIP	\$0.51	\$0.93	\$0.81	\$0.77	\$0.26	33.8%

Trimmer Potentiometers

Save Up to 28%

Be sure to take a look at our expanded selection of Jameco ValuePro™ and Bourns trimmer pots on pages 66-70. Each is priced to save you money!



Jameco Part No.	Description	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
253981CC	1k, 1/2W	\$0.59	\$0.83	\$0.83	\$0.98	\$0.24	28.9%
254676CC	10k, 1/4W	\$2.29	\$3.58	\$2.94	\$3.64	\$0.65	22.1%
254094CC	10k, 1/2W	\$0.59	\$0.83	\$0.83	\$0.98	\$0.24	28.9%
254035CC	100k, 1/2W	\$0.59	\$0.83	\$0.83	\$0.98	\$0.24	28.9%

Transistors

Save Up to 43%

Need a low-noise, small-signal amplifier or a high-power MOSFET switcher? Be sure to review our full selection of money-saving transistors on pages 40-41.



Jameco Part No.	Product No.	PRICES - See Below For Details				Minimum	
		Jameco*	Digi-Key*	Mouser*	Newark*	Savings	Discount
214009CC	MMPQ2907A, SOIC	\$0.79	\$1.40	\$2.56	\$1.88	\$0.61	43.6%
194466CC	2N4033 MOSFET	\$0.62	Not Offered	\$0.76	\$0.96	\$0.14	18.4%

More on Price Comparisons

These are single unit prices taken from each party's website on December 10, 2004 and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

Jameco Has 16-bit PIC Microcontrollers! (and they're in FLASH!)

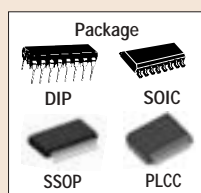
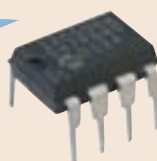
Benefits of these 16-bit microcontrollers over our current 8-bit offerings are:

- 2x performance (10MIPS, 2MB addressing, twice the instruction set)
- up to 32kB of flash
- upwardly compatible with existing PICs
- up to three 16-bit timers
- up to four channels of 10-bit PWM output
- up to 21 interrupts

In addition to these microcontrollers, Jameco now stocks full ISO CAN2B Microcontrollers!

The CAN interface is programmable and handles up to 1Mbps of data. It is ideal for industrial networking, medical equipment, numerical machine control, railway signaling, controlling building services, and vending machines.

Jameco is adding the ICs you need to make your designs a reality!



PIC 18F Microcontrollers

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
248090CC	PIC18F1220-I/P	DIP-18	Flash	40	2k	256	16	..... \$4.35	\$3.89
248102CC	PIC18F1220-I/SO	SOIC-18	Flash	40	2k	256	16	..... 4.35	3.89
248111CC	PIC18F1320-I/P	DIP-18	Flash	40	4k	256	16	..... 4.89	4.40
248129CC	PIC18F1320-I/SO	SOIC-18	Flash	40	4k	256	16	..... 4.89	4.40
247986CC	PIC18F242-I/SO	SOIC-28	Flash	40	8k	768	23	..... 7.39	6.61
247978CC	PIC18F242-I/SP	DIP-28	Flash	40	8k	768	23	..... 7.39	6.61
248006CC	PIC18F252-I/SO	SOIC-28	Flash	40	16k	1536	23	..... 8.05	7.20
247994CC	PIC18F252-I/SP	DIP-28	Flash	40	16k	1536	23	..... 8.05	7.20
200504CC	PIC18C252-I/SP	DIP-28	OTP	40	32k	1536	23	..... 7.75	6.95
248022CC	PIC18F258-I/SO	SOIC-28	Flash	40	16k	1536	23	..... 9.65	8.62
248014CC	PIC18F258-I/SP	DIP-28	Flash	40	16k	1536	23	..... 9.65	8.62
248081CC	PIC18F442-I/L	PLCC-44	Flash	40	8k	768	34	..... 9.59	8.63
248073CC	PIC18F442-I/P	DIP-40	Flash	40	8k	768	34	..... 8.15	7.35
200512CC	PIC18C452-I/P	DIP-40	OTP	40	32k	1536	23	..... 9.19	7.49
200521CC	PIC18C452-I/JW	DIP-40	EPROM	40	32k	1536	23	..... 22.85	20.55
248049CC	PIC18F452-I/L	PLCC-44	Flash	40	16k	1536	34	..... 10.29	9.26
248031CC	PIC18F452-I/P	DIP-40	Flash	40	16k	1536	34	..... 8.85	7.99
248065CC	PIC18F458-I/L	PLCC-44	Flash	40	16k	1536	34	..... 11.15	10.05

For complete listing see pages 9-11.

Your Best Source for Small Motors



Jameco is virtually the only place in the country where you can buy off-the-shelf DC and stepper

motors. And we've recently added many more! Now you can find the motors you're looking for in just one call.



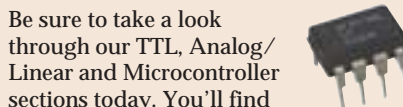
For details see pages 110-116.

100s of New ICs!

Be sure to take a look through our TTL, Analog/Linear and Microcontroller sections today. You'll find hundreds of new products from

Anachip, Microchip, Texas Instruments and more, all priced to save

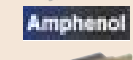
you money. And if you can't find the IC you're looking for, be sure to tell us what you need by writing to newproducts@Jameco.com.



See pages 6-49 for complete details.

Name-Brand Connectors at the Lowest Prices

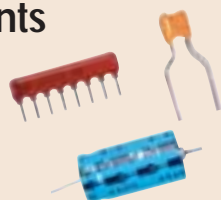
Now you can get **AMP, AMPHENOL** and **MOLEX** connectors at Jameco's great prices! We've expanded our line of D-SUB, UHF, BNC and power connectors from these leading connector manufacturers. So, whether you need data, RF or power connectors, you can be sure you'll find the products you need.



Complete selection see pages 90-106.

Discrete Components

Keep your supply cabinets stocked and save money too! Jameco offers a complete line of widely-used discrete components for your convenience. So be sure to check out our selection and learn how you can save money on your discrete component purchases.



Details on pages 57-73.

Upgrade Your Workbench

Our recent test equipment additions allow you to automate tasks, test faster, and save time. From digital oscilloscopes to programmable bench power supplies and DMMs, you'll find a wide breadth of products priced to save you money.



See pages 192-206 for selection.

The Best Products from Around the World. Awesome Prices!

Join the **ValuePro** Revolution!



In every catalog, you'll see more and more products with the **ValuePro** designation. What this means is simple: When you choose **ValuePro**, you're selecting world-class quality and reliability, with trusted Jameco value, service and support.

ValuePro is our own house brand, an exclusive family of products and components that pass our highest standards of performance. When you build **ValuePro** products into your designs, you can trust that they'll be consistently reliable, compatible, available, and of course, value priced!

Available throughout pages 50-133.



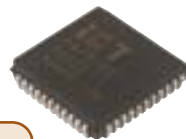
Anachip PLDs



Anachip/ICT Programmable Logic Devices (PLDs) can serve as a cornerstone to your designs, and Jameco is proud to carry this outstanding line.

Of course, Anachip PEEL™ (Programmable Electrically Erasable Logic) technology will provide the "glue" to tie the sophisticated components in your design together. But the real Anachip advantage is drop-in replacement capability for products made by former competitors (like AMD, Intel, Philips, NSC and Cypress) who no longer manufacture PLDs.

With a full line of Anachip technology and Jameco pricing, you've now got a trusted, value-conscious source of high-quality PLDs!



Products on pages 13, 32-33 & 38-39.

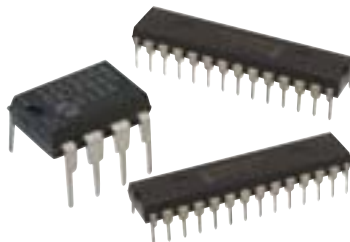
What Every Workbench and Field Kit Needs!



This 350-piece wire jumper kit will be a time-saver from the moment you receive it. Whether you spend your days wiring breadboards at work or building custom hobby designs at play, these color-coded, pre-stripped wires in assorted lengths will have just the jumper you need to make your connections and get the job done. Order part #19289CC for a complete kit, and #20079CC to refill.

More details on page 226.

More PICs from Microchip!



You asked, and we've answered! In these pages, we've added even more choices to our growing line of outstanding Microchip MCUs, from one-time-programmable (OTP) to flash-programmable components in both DIP and SMT packaging!

For complete listing, see pages 9-12.

Portable, Rechargeable Battery Packs at Jameco's Awesome Prices!

For NiCAD and NiMH packs, in all configurations, shapes, capacities and sizes, you can't beat the Jameco line. These packs offer unparalleled flexibility and quality, whether as replacement packs or as rechargeable power for your new designs. Using AA to D cells, from 700 mAh to 5,000 mAh, fully assembled in a wide range of shapes and sizes, our **ValuePro** packs have the power you need to juice-up your projects!



Go to page 172 for details.



1355 Shoreway Road, Belmont, CA 94002-4100

Toll Free Ordering, Customer Service & Technical Support
Domestic: 1-800-831-4242 / International: 1-650-592-8097
Domestic FAX: 1-800-237-6948 / International FAX: 1-650-592-2503
e-mail: info@Jameco.com

<http://www.Jameco.com>

PRESORTED STANDARD
AUTO CR
US POSTAGE PAID
JAMECO ELECTRONICS

Customer Number

VIP Number